

**CSMRI Site
Remedial Action Implementation Report**

Prepared for:

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Golden, Colorado

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List of Acronyms

| | |
|---------|---|
| ALARA | as low as reasonably achievable |
| ARAR | applicable or relevant and appropriate requirement |
| bgs | below ground surface |
| CDPHE | Colorado Department of Public Health and Environment |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act of 1980 |
| COPC | constituent of potential concern |
| CSMRI | Colorado School of Mines Research Institute |
| DCGL | derived concentration guideline |
| DO | dissolved oxygen |
| EPA | U.S. Environmental Protection Agency |
| GPS | global positioning system |
| MARSSIM | Multi-Agency Radiation Survey and Site Investigation Manual |
| MCL | maximum contaminant level |
| MCLG | maximum contaminant level goal |
| meq/L | milliequivalents per liter |
| mg/kg | milligrams per kilogram |
| mg/L | milligrams per liter |
| NCP | National Oil and Hazardous Substances Pollution Contingency Plan |
| NRC | U.S. Nuclear Regulatory Commission |
| ORP | oxidation-reduction potential |
| pCi/g | picoCuries per gram |
| pCi/L | picoCuries per liter |
| QAPP | Quality Assurance Project Plan |
| RCRA | Resource Conservation and Recovery Act |
| RI/FS | Remedial Investigation/Feasibility Study |
| TEDE | Total Effective Dose Equivalent |
| TOC | top-of-casing |
| µg/L | micrograms per liter |
| UMTRA | Uranium Mill Tailings Remedial Action |
| WL | Working Level |

1. Introduction

The S.M. Stoller Corporation (Stoller) on behalf of the Colorado School of Mines (School) has characterized the Colorado School of Mines Research Institute (CSMRI) Site (the Site), evaluated remedial alternatives, and implemented the selected remedial alternative. This report summarizes the implementation of the selected remedial alternative and provides background information for the Site. The Site is located in Jefferson County, Colorado, on the south side of Clear Creek, east of U.S. Highway 6, in the northeast quarter of the northwest quarter of Section 33, Township 3 South, Range 70 West as shown in Figure 1.

The main entrance to the Site is located about 475 feet northwest of the intersection of Birch and 12th Streets in Golden, Colorado. A chain-link fence restricted access to the Site, except for a small area located south of 12th Street known as the Clay Pits Area where some CSMRI pond dredgings were deposited. A settling pond was previously located within the perimeter fence, but the pond was cleaned up and closed by the U.S. Environmental Protection Agency (EPA) in 1997 as part of an Emergency Removal Action under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (CERCLA) and is not part of the School's remedial action.

The Site is a former metallurgical and mining research facility. Numerous mineral research projects (some of which involved the mineral extraction and beneficiation of materials that contained levels of radionuclides and/or metals above local background) were conducted at the Site from 1912 until approximately 1987. The research projects were conducted in 17 buildings on the Site that were subsequently razed in the mid-1990s.

A City of Golden water main broke on January 25, 1992, and began discharging a large volume of water into the Site's settling pond. The EPA's Emergency Response Branch responded in February 1992 and performed a number of activities to stabilize conditions at the Site. The EPA removal action was completed in 1997.

The Site includes the Main Site (i.e., the upper portion of the fenced area not within the 100-year flood plain), the Clay Pits Area, and the Flood Plain Area (within the fenced area and east of the former pond area). The Site does not include the area of the former settling pond that was previously closed by the EPA.

The CSMRI Site had historically included the soil stockpile (material removed from the settling pond) formerly located near the School's softball field, the Fenced Area (including the settling pond), and the Clay Pits Area located south of the intersection of Birch and 12th Streets. For use in this document, the Site is defined as the Main Site, the Flood Plain Area (excluding the settling pond), and the Clay Pits Area.

This report includes summaries of additional pertinent details about the remedial action plan process followed by appendices containing shipping and disposal records of impacted material.

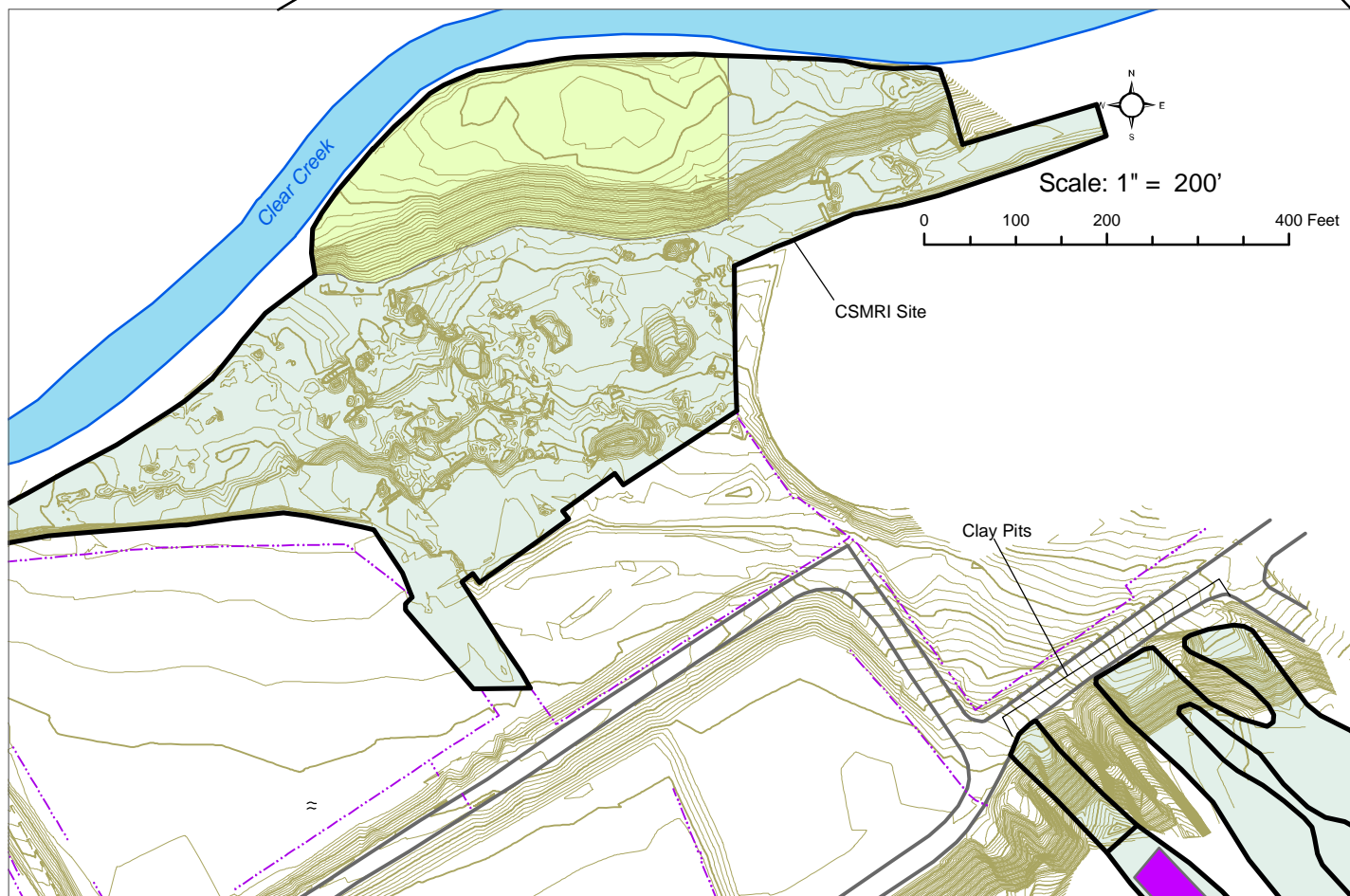
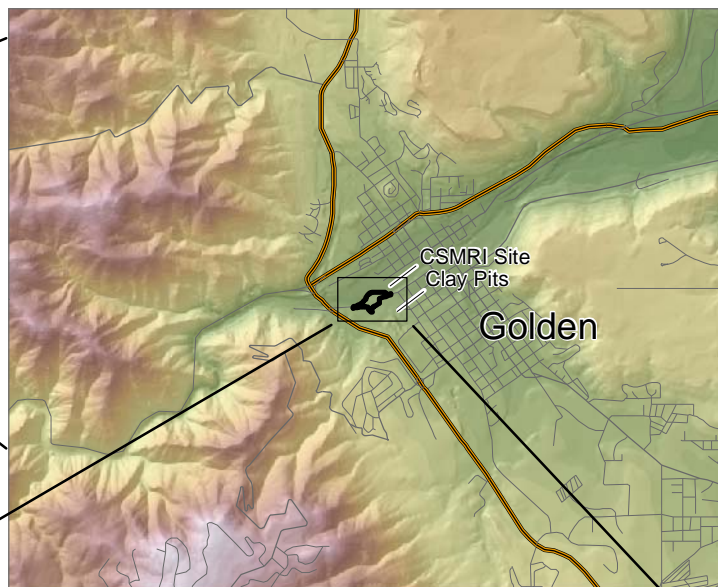
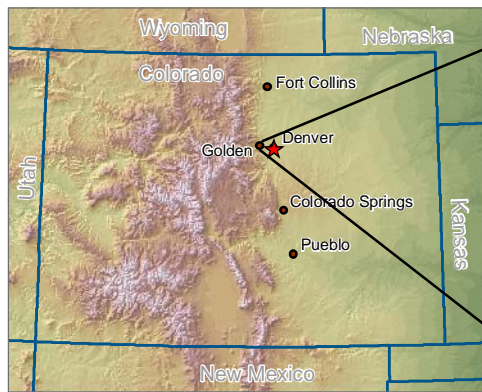


Figure 1

CSMRI Site Location Map

| Explanation | |
|-------------|-----------------------------|
| | CSMRI Site |
| | Fences |
| | Roads |
| | Topography (5 ft Intervals) |
| | Topography (1 ft Intervals) |
| | Site Areas |
| | Former Settling Pond |
| | CP Area Surveyed - 1977 |

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This report reviews the selected remedial action, the confirmation of its successful completion, verification sampling, and a Legacy Management Plan for the Site. The selected remedy involved the excavation and transportation of the impacted soil material to two off-site, approved landfills and the implementation of environmental covenants for risks associated with Site soil and groundwater. The selected remedy is protective of human health and the environment, complies with federal and state requirements that are applicable or relevant and appropriate to the remedial action, is cost-effective, and utilizes permanent solutions and alternative treatment technologies to the maximum extent practicable.

Two documents support the implementation of the remedial alternative: the *Remedial Investigation/Feasibility Study* (RI/FS) (Stoller, 2007b) and a Record of Decision (Stoller, 2007d). The RI/FS, along with its proposed plan, implements the processes involved in arriving at the proposed selection of the off-site disposal remedial action for the Site with environmental covenants. The Record of Decision's purpose is to select the remedy after public comment on the proposed plan.

This document describes the following items:

- Chronology of Events
- Performance Standards and Clean-up Goals
- Quality Assurance/Quality Control
- Construction Activities
- Final Inspection/Site Closure
- Operations and Maintenance
- Project Costs
- Covenants/Legacy Management
- Certification

The status of the entire Site is herein presented, including all restrictive environmental covenants being placed on the Site.

2. Site History/Chronology of Events

The Site is divided into three investigative areas, each related to possible impacts resulting from the former activities on the Main Site. These areas, described above, are known as the Main Site, the Clay Pits Area, and the Flood Plain Area. Each is detailed in the following subsections. Ongoing impacts to groundwater are also discussed herein, and a plan to track the success of off-site source disposal is presented. The Clay Pits Area was investigated to the extent that radiological and metals contamination, if any, originated from the CSMRI settling pond dredgings that were deposited in the Clay Pits Area and no further action was determined after the investigation was unable to locate elevated activity or metals concentrations indicative of CSMRI activities. The Flood Plain Area was investigated and underwent soil excavation, and final disposition includes a restrictive covenant. The Main Site was characterized, the remedial alternative implemented, and restrictive covenants are being applied to this property to require radon mitigation in the event of future development as well as restricting groundwater use. The former settling pond area was remediated by EPA in the 1990s.

The remedial alternative selection and implementation meets the requirements of CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP).

2.1 Main Site Description and Chronology

New Horizons performed remediation work in 2004 that included containerizing approximately 1,870 cubic yards of soil that was stored on the Site. New Horizons underestimated the nature and extent of contaminated soil, and the School halted the work. In October 2005, Stoller obtained approval and a permit to transport the containerized soil off-site via an access lane on Colorado Highway 6 to Foothills Landfill. Following the disposal of the containerized soil, Stoller was requested by the School to perform further Site characterization.

Stoller performed additional investigative work in 2005-2007. Stoller prepared a Revised RI/FS in May 2007, which revised the 2004 RI/FS. It provided the nature and extent of contamination, re-evaluated alternative remedies, and proposed an off-site disposal remedy that differed from the remedy selected in 2004. The Revised RI/FS incorporated portions of the 2004 RI/FS, replaced some portions, and supplemented other portions. With respect to the nature and extent of contamination, the 2004 RI/FS estimated 500 cubic yards of soil averaging greater than 3 pCi/g of Radium 226 (Ra-226) above background would be excavated. This soil was designated to go to the U.S. Ecology Resource Conservation and Recovery Act (RCRA) landfill in Idaho. In addition, the 2004 RI/FS estimated 9,500 cubic yards of soil averaging above background, but no more than 3 pCi/g Ra-226 above background, would also be excavated. This greater volume of soil was designated to be disposed of at the Foothills solid waste landfill in Jefferson County, Colorado. The cost of shipping and disposing of the contaminated soils in Idaho was much greater than the cost of shipping and disposing of the soils at the Foothills Landfill. The 3 pCi/g Ra-226 threshold that distinguished between the two types of soil was determined by a regulatory requirement.

Site characterization activities were completed following the procedures set forth in the *CSMRI Creekside Site Final Site Characterization Work Plan*, dated May 12, 2006 (Stoller, 2006a). The investigation entailed excavating the impacted soil and stockpiling it on-site to determine the nature and extent of contamination. This excavation method was analogous to the method used by the EPA to address the former settling pond at the Site.

The results of Stoller's soil excavation and segregation investigation further demonstrated the reasonableness and necessity of halting the 2004 remedial work and performing further investigation of the Site.

The tentative soil clean-up goals that were in place at that time are presented in Table 2-1.

Table 2-1
COPCs and Site Action Levels

| Constituent | Action Level |
|----------------------|------------------------|
| Metals | mg/kg |
| Arsenic | 39 |
| Lead | 400 |
| Mercury (total) | 23 |
| Molybdenum | 390 |
| Vanadium | 550 |
| Radioisotopes | picoCuries/gram |
| Radium 226 | 4.14 |
| Radium 228 | 4.6 |
| Thorium 228 | 6.47 |
| Thorium 230 | 11.53 |
| Thorium 232 | 3.88 |
| Uranium 234 | 254.9 |
| Uranium 235 | 4.97 |
| Uranium 238 | 21.8 |

Site characterization was successfully completed for the Main Site by performing the following tasks:

- **Initial soil segregation:** Based on data from the 2004 remedial investigation, soil was segregated by metals content and radiological activity. Soil with concentrations of Site constituents of potential concern (COPCs) above the Action Levels was placed in one of the two lined soil stockpiles as follows:
 - Segregation of soil above 100 pCi/g: Soil identified as containing total activity above 100 pCi/g was segregated and placed into a separate soil stockpile (Stockpile A).
 - Segregation of soil below 100 pCi/g total activity and above 4.14 pCi/g Ra-226: Soil identified as containing Ra-226 activity in excess of 4.14 pCi/g but having total activity less than 100 pCi/g was segregated and placed into a separate soil stockpile (Stockpile B).
 - Segregation of soil above metals Action Levels: Soil identified as containing metals above the metals Action Levels was segregated and placed into Stockpile B.
- **Land gamma scan:** Following initial soil excavation based on the 2004 data, a land gamma scan was completed to identify areas of the main Site with remaining elevated activity.
- **Continuing soil segregation:** Using a series of field and on-site laboratory instruments, soil was assessed for metals and Ra-226 content. All soil exceeding the Action Levels was segregated to one of the two soil stockpiles using the same criteria as stated above.
- **Final land gamma scan:** Upon completion of the soil segregation activity, a final land gamma scan of the Main Site was completed to assess the effectiveness of the characterization.

- *Confirmatory sampling:* Finally, to confirm the land gamma scan, soil samples were collected and submitted to both the on-site and an off-site laboratory for final confirmatory analysis.

2.2 Clay Pits Description and Chronology

In the late 1800s, clay was mined from the Clay Pits Area located west of South Table Mountain, immediately south of Clear Creek in Golden, Colorado. By the mid-1900s, the pits were depleted of clay and remained as opened trenches. The pits were soon backfilled with soil, trash and debris, including flood material debris from the 1965 flood of the South Platte River. The Clay Pits Area was investigated twice; the first time the location suspected of containing the CSMRI waste was incorrectly located, prompting the second investigation. Debris placed in these trenches was thought to have included ore and sludges from the CSMRI Site; however, the Site investigation detailed in the *Clay Pits Area Remedial Site Investigation Report* (Stoller, 2007a) and summarized herein was not able to confirm the presence of ore and sludges from the CSMRI Site. On September 14, 2007, the Colorado Department of Public Health and Environment's (CDPHE) radiation unit agreed that no further action is required in this area (Appendix A). This location was removed from the CSMRI license (Appendix B).

Two separate efforts were conducted to locate buried ore and sludges from the CSMRI Site in the Clay Pits Area. The first investigation was unsuccessful due to the lack of survey information exactly identifying the location of the suspected material within the pits. The suspected location of the material was surveyed in 1977 and is known as the Bolis survey. This survey was identified only after the original Clay Pits investigation.

At the request of the Colorado School of Mines, a second subsurface investigation was conducted of the former Clay Pits Area during April 2007. The Clay Pits Area has the same performance Standards as the Main Site and followed the same procedures except as detailed in the letter work plan dated November 6, 2006. The goal of the investigation was to locate the area suspected to contain former pond sediments, as identified in the Bolis survey, and to determine the nature and extent of the contamination if identified. The contaminated sediments in question were thought to have originated from a former settling pond previously located on the CSMRI Site.

To locate this area, Flatirons Surveying, Inc. of Boulder, Colorado created a plan view model based on the Bolis survey. The model was then projected on City of Golden plats to re-establish the point of origin, as defined by Bolis, and the corners of the rectangle that defines the 1977 surveyed locations of where the dredged material was reportedly placed. The model was then implemented in the field beginning at the point of origin and the corners of the rectangle were staked. A plat of this was filed with the County Surveyor making it an official part of the area's survey record.

After the suspected location of the buried sediment was staked in the field, six borings were advanced through the suspected area, encountering fill and debris. Each of the boreholes extended to native material underlying the debris – 40 to 56 feet below ground surface (bgs). Each boring was continuously cored with each core subjected to a continuous scan for radioactivity using a handheld sodium iodide gamma scintillator. Field observations (scanning

results and sample collection locations) were recorded onto borehole log field forms. The activity scanning indicated background conditions for all soil in each core.

Soil samples were collected every 5 feet from each boring. Samples selected for laboratory analysis consisted of samples identified in the field as being the most likely to contain elevated activity and metals concentrations. These soil samples were submitted to Paragon Analytics of Fort Collins, Colorado. The analyte suite included the identical compounds that have been identified as COPCs at the CSMRI Site.

The investigation concluded that no further action was necessary at the Clay Pits Area with respect to CSMRI Site operations responsibility. Further information about the Clay Pits investigation is detailed in the *Clay Pits Area Remedial Site Investigation Report* (Stoller, 2007a).

2.3 Flood Plain Description and Chronology

The Clear Creek Flood Plain Area of the Site consists of the area immediately adjacent to Clear Creek within the limits of the 100-year flood plain, immediately adjacent to the east of the former settling pond. This pond was remediated by the EPA, and CDPHE granted closure of the pond area. Residual impacts likely associated with the settling pond were identified in the area known herein as the Flood Plain Area during the RI/FS completed by New Horizons. Data collected during the original RI/FS in 2004 indicated elevated concentrations of Ra-226 on the flood plain east of the former settling pond. All other Site COPCs were below the regulatory limits. The sample numbers are CSM155 through CSM161 as shown in Table 2-2.

Table 2-2
Flood Plain Characterization Sample Results

| Sample Location | Depth (Inches) | Sample Number | Ra-226 (pCi/g) |
|-----------------|----------------|---------------|----------------|
| 1 | 0 | 1207 | 3.81 |
| 2 | 0 | 1208 | 4.00 |
| 3 | 0 | 1211 | 5.70 |
| 4 | 0 | 1212 | 2.29 |
| 4 | 6 | 1213 | 2.50 |
| 4 | 12 | 1214 | 2.60 |
| 4 | 18 | 1229 | 4.65 |
| 4 | 24 | 1230 | 3.69 |
| 4 | 36 | 1231 | 2.18 |
| 5 | 0 | 1216 | 3.05 |
| 5 | 6 | 1217 | 3.04 |
| 5 | 12 | 1218 | 2.99 |
| 5 | 18 | 1219 | 3.23 |
| 6 | 0 | 1215 | 2.93 |
| 7 | 0 | 1209 | 4.19 |
| 8 | 0 | 1225 | 3.68 |
| 9 | 0 | 1202 | 8.23 |
| 10 | 0 | 1203 | 5.15 |
| 10 | 6 | 1204 | 6.27 |
| 10 | 12 | 1205 | 6.60 |
| 10 | 18 | 1206 | 7.18 |

Table 2-2
Flood Plain Characterization Sample Results

| Sample Location | Depth (Inches) | Sample Number | Ra-226 (pCi/g) |
|-----------------|----------------|---------------|----------------|
| 10 | 24 | 1226 | 3.14 |
| 10 | 36 | 1227 | 3.90 |
| 10 | 48 | 1228 | 2.61 |
| 11 | 0 | 1201 | 4.81 |
| 12 | 0 | 1197 | 9.71 |
| 12 | 6 | 1198 | 8.60 |
| 12 | 12 | 1199 | 6.32 |
| 12 | 18 | 1200 | 5.07 |
| 13 | 0 | 1210 | 4.72 |
| 14 | 0 | 1224 | 2.36 |
| 15 | 0 | 1220 | 1.11 |
| 15 | 6 | 1221 | 3.73 |
| 15 | 12 | 1222 | 2.67 |
| 15 | 18 | 1223 | 3.07 |
| CSM155 | | | 4.90 |
| CSM156 | | | 20.00 |
| CSM157 | | | 4.70 |
| CSM158 | | | 9.30 |
| CSM159 | | | 28.00 |
| CSM160 | | | 5.00 |
| CSM161 | | | 8.60 |

Stoller conducted a Wetlands Delineation Study in July 2006. The report from that study was included in the *CSMRI Site Flood Plain Characterization Work Plan* (Stoller, 2006b). The study was conducted to determine if the area qualifies for wetland status and would therefore need additional controls, possibly including a U.S. Army Corps of Engineers' Section 404 permit, to conduct soil segregation. The results indicated that based on soil, vegetation, and hydrology, some of the flood plain is categorized as a wetland. However, based on Section 404 Permit guidance, provided in the above-referenced work plan, no permit was required, because the following guidelines would be followed:

- No fill material would be placed within the wetlands.
- Soil excavated would be scooped out rather than pushed or bulldozed.
- The temporary access road would not be constructed in the wetlands.

Following the Wetlands Delineation Study, additional investigative work was performed by Stoller in September 2006 in accordance with the Site Characterization Work Plan. This included a collection of samples at 15 locations within the Flood Plain Area. At 10 of these locations, surface samples were collected, and at five locations, samples were collected at the surface and at 6-inch intervals until rock, roots, or water was encountered. Samples were analyzed by a shielded-sodium iodide detector, identical to that used for Main Site characterization activities in June through August 2006. These sample locations are shown in Figure 2, and the sample results are shown in Table 2-2.

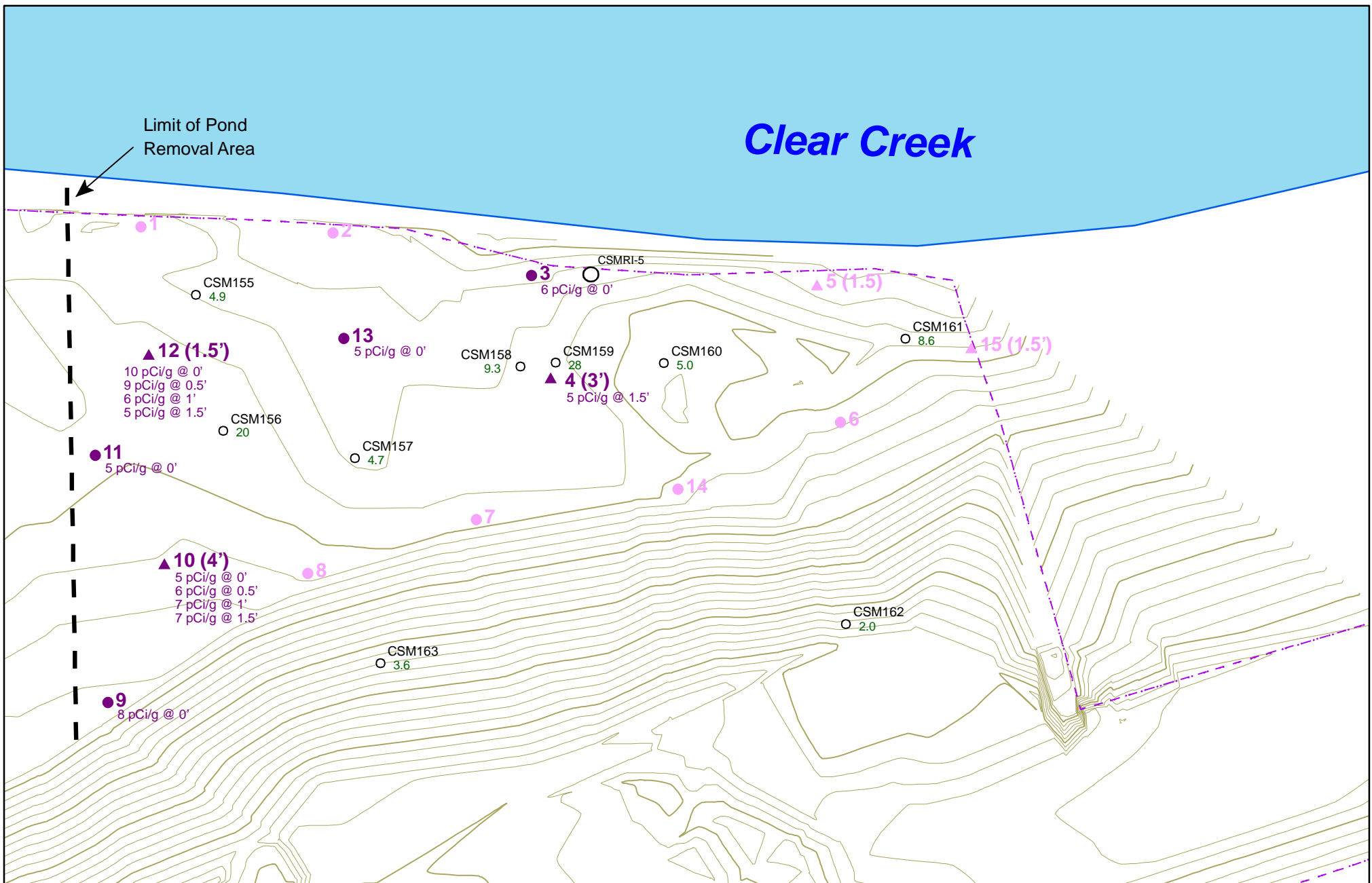


Figure 2

Flood Plain
Sample Locations

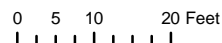
Explanation

- New Horizons Sample Location with Ra226 Concentration
- ▲ Surface and Subsurface Sample Location
- Surface Sample Location
- ▲ Surface and Subsurface Sample Location Ra226 ≥ 5 pCi/g
- Surface Sample Location Ra226 ≥ 5 pCi/g

- Fences
- Topography (5 ft Interval)
- Topography (5 ft Interval)



Scale: 1" = 150'



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The characterization effort determined the extent of Ra-226 impacts to the eastern Flood Plain Area. The plan was to relocate impacted soil to the existing soil stockpiles located on the upper terrace to the south. However, remediation of this impacted area was delayed due to several weather events in the fall and winter. It was decided that remediation would occur during the stockpiled soil disposal activities. This decision was based on the cost savings associated with mobilizing/demobilizing heavy equipment and work crews to the Site.

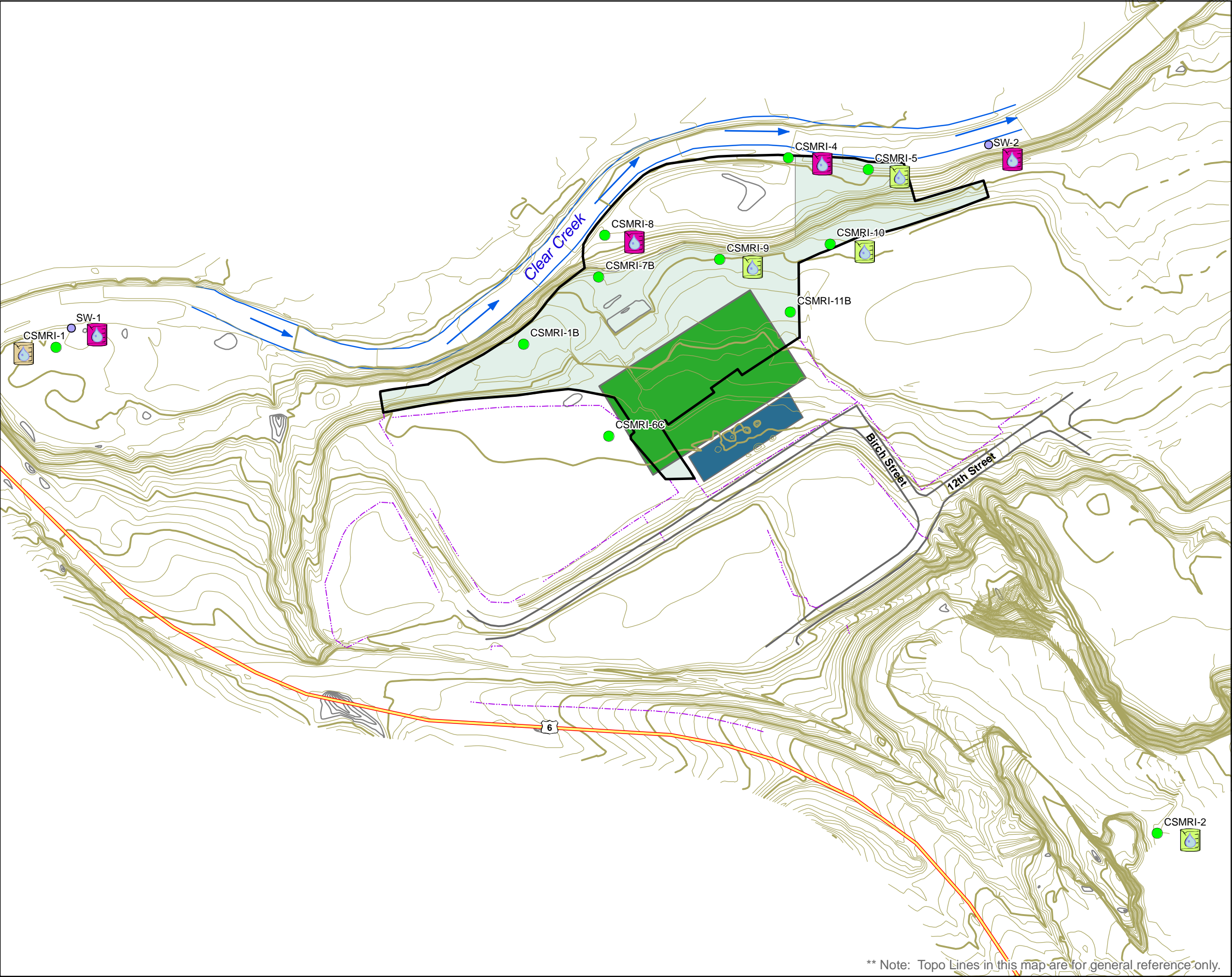
On August 17, 2007, approximately 54 cubic yards of the flood plains' contaminated soil was relocated to Stockpile B. At the end of August, a rainstorm caused problems with the Flood Plain Area. A storm water inspection found that the Flood Plain Area seepage was flowing under the silt fence toward Clear Creek. Two bales of straw were placed in the water flow to settle silt for temporary prevention of seepage. The following week, a straw wattle was placed in the area. On August 28, 2007, approximately 55 cubic yards of flood plain soil were added to Stockpile B. On August 30, 2007, 22 flood plain samples were collected and sent to a laboratory. The first week of September 2007, approximately 100 cubic yards of flood plain soil was excavated, which finished the flood plains' remediation work. Samples were collected to provide data about the final stage of the flood plain work.

The former pond area was closed by the CDPHE after the EPA performed an emergency removal action, remediating the former pond area to the Uranium Mill Tailings Remedial Action (UMTRA) Standards of 5 pCi/g in the upper 6 inches of soil and 15 pCi/g below that in each 6-inch layer. The former pond area was not investigated during the investigation phase of this project but the former pond area is addressed further in Section 9 of this report for purposes of an environmental covenant.

2.4 Groundwater Description and Chronology

Groundwater at the Site occurs under unconfined conditions in the alluvium/colluvium and generally follows the bedrock surface. Depth to the water table ranges from about 3 to 30 feet bgs, depending on distance from Clear Creek and depth to bedrock. Based on surface and bedrock topography, groundwater generally flows to the north-northeast toward Clear Creek. The alluvial/colluvial deposits are mainly recharged by infiltration of precipitation and to a limited extent by Clear Creek within the Flood Plain Area during periods of high flow. The alluvial/colluvial system naturally discharges to Clear Creek. Elevation of the potentiometric surface values relative to the surveyed top-of-casing (TOC) elevations are posted adjacent to each monitor well. The locations of the Site monitor wells are shown on Figure 3.

Groundwater in the shallow alluvium/colluvium has been shown to contain elevated concentrations of uranium, a Site contaminant of concern that also occurs naturally in the bedrock formations and in the surficial deposits that comprise the Site. The groundwater uranium concentrations have been attributed to infiltrating water resulting in migration of radionuclides from source materials located on the Site. The majority of these source materials have been taken off-site.



Explanation

● Monitor Well

○ SW Sample Location

— CSMRI Site

--- Fences

— Roads

— US Highway 6

— Topography (Depressions)

— Topography (10 Ft Intervals)

— Topography (2 Ft Intervals)

■ Soccer Field

■ Stands

■ Site Area

WaterType

■ Ca-Cl

■ Ca-HCO3

■ Ca-SO4

N

W

S

E

Scale: 1" = 200'

0

100

200

400 Feet

Figure 3

Monitoring Well
Location Map

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** Note: Topo Lines in this map are for general reference only.

J:\projects\CSMRI\IR_FIG3_SiteMonitoringWells_New2009.mxd Printed @ 07/29/2009 by WES

A two-year monitoring period is currently being conducted to confirm the effectiveness of the Selected Remedy and to review the Legacy Management Plan. The current groundwater monitoring program consisting of quarterly sampling and analysis will be continued until such a time as levels drop to either below the Colorado groundwater Standard or demonstrate a trend sufficient to confirm success of the remedy at addressing the uranium contamination in the groundwater.

Groundwater well sampling activity was sporadic prior to February 2005 at which time Stoller assumed this responsibility. Since then, regular quarterly sampling and reporting has been completed. Reports summarize sampling procedures, present and evaluate analytical data, and discuss observed trends. At the request of the CDPHE radiation unit, seven additional groundwater wells were installed at the Site in February 2007 to track the effectiveness of source excavation to Action Levels. Groundwater monitoring wells CSMRI-1B, CSMRI-6B, CSMRI-7B, CSMRI-8, CSMRI-9, CSMRI-10, and CSMRI-11 were installed at the CSMRI Site during February 2007. The “B” designation in the monitor well label denotes a replacement monitor well. Currently, a total of 11 monitoring wells, (the aforementioned seven plus CSMRI-1, CSMRI-2, CSMRI-4, and CSMRI-5 from previous groundwater programs) are included in the Site monitoring program.

Further details about the groundwater monitoring are located in the quarterly monitoring reports for CSMRI. Additional information about installation of the wells is located in the *Groundwater Monitoring Well Installation Work Plan* (Stoller, 2006c) and *Draft Implementation Report, Groundwater Monitoring Well Installation* (Stoller, 2007c).

3. Performance Standards and Clean-up Goals

Site performance Standards and clean-up goals along with applicable or relevant and appropriate requirements (ARARs) are presented below.

Both of the RI/FSs that were performed at the Site identified elevated concentrations of radionuclides and metals. Based on existing information, site-specific remedial action objectives to protect human health and the environment were developed. The objectives specify the materials and media of concern, the exposure routes and receptors, and an acceptable contaminant (material) level or range of levels for each exposure route (i.e., preliminary remediation goals).

Remedial action objectives for the Site were designed to prevent or mitigate further release of affected materials to the surrounding environment and to eliminate or minimize risk to human health and the environment. The affected material was the surface and subsurface soil located in the vicinity of the former buildings prior to soil segregation activities. After soil segregation, most of the affected material was located in either Stockpile A or Stockpile B. Potential receptor pathways included direct radiation, inhalation, and ingestion of plants and soil. Another potential exposure pathway is the migration of the affected material to groundwater and subsequent ingestion. The following are the originally established objectives for the Site prior to soil segregation activities:

- Eliminate or minimize the pathway for dermal contact, inhalation, and ingestion of site-specific radionuclides to human receptors to achieve a level of protection in compliance with the NCP levels of acceptable cancer risk (10^{-4} to 10^{-6}).
- Develop receptor-specific Derived Concentration Guidelines (DCGLs) to limit unacceptable radiation doses (total effective dose equivalent [TEDE] to less than 25 mrem/yr and 15 mrem/yr, distinguishable from background; and less than 100 mrem/yr above background if institutional controls fail for on-site restricted-use remedies) for the radionuclides found in the affected material (i.e., soil). Radium-226, thorium-228, thorium-230, thorium-232, and uranium-238 are present on Site at activities above tentative DCGLs. Additional radionuclides were identified during the characterization (radium-228, uranium-234, and uranium-235) but at activities consistent with background.
- Prevent exposure to indoor air concentrations of radon gas and radon decay products greater than 4 picocuries per liter (pCi/L) and 0.02 working level (WL), respectively. Exposure to 4 pCi/L of air for radon corresponds to an approximate annual average exposure of 0.02 WL for radon decay products, when assuming residential land use.
- Prevent long-term dermal, inhalation, and ingestion exposures to trace metal-affected materials with concentrations greater than the CDPHE proposed Residential/Unrestricted Land-Use Standards or that generate hazard indices greater than 1. The trace metals of concern are arsenic, lead, mercury, molybdenum, and vanadium.
- Address hazards associated with soil containing elevated concentrations of lead (possible access issues with neighborhood children).
- Implement remedial measures that limit groundwater and surface-water concentrations to the maximum contaminant levels (MCLs) at the points of compliance and to non-zero maximum contaminant level goals (MCLGs), established under the Safe Drinking Water Act and under Colorado law. Although the affected groundwater is not a current drinking water supply, it eventually enters Clear Creek, which is used by downstream users for drinking water. Uranium and arsenic are the primary groundwater contaminants of concern.
- Prevent off-site migration of affected material that could result in the exposures described above. This includes the groundwater pathway.
- Implement remedial actions that reduce exposures from ionizing radiation to levels that are as low as reasonably achievable (ALARA).
- Comply with soil-, location- and action-specific ARARs (presented below).

The remedial action objectives were used to identify specific soil Action Levels and groundwater Standards, as listed in Tables 3-1 and 3-2. Table 3-1 presents the soil Action Levels agreed to in the approved 2006 Site Characterization Work Plan. Table 3-2 identifies ARARs for soils,

groundwater, and surface water. These final DCGLs, in combination with the environmental covenant, allow the School to comply with all ARARs and allow for future beneficial use of the Site.

Table 3-1
Site DCGLs and Soil Clean-up Levels

| Metal | DCGL (mg/kg) | Site Action Level (inclusive of background) (mg/kg) |
|---------------------|-----------------|---|
| Arsenic | 1.0 | 39 |
| Lead | NA | 400* |
| Mercury (elemental) | 1.1 | 1.1 |
| Mercury (compounds) | NA | 23 |
| Molybdenum | NA | 390 |
| Vanadium | NA | 550 |
| Radioisotope | DCGL (pCi/g) | Site Action Level (pCi/g) |
| Radium 226 | 1.44 | 4.14 |
| Radium 228 | 2.20 | 4.6 |
| Thorium 228 | 3.77 | 6.47 |
| Thorium 230 | 9.83 | 11.53 |
| Thorium 232 | 1.48 | 3.88 |
| Uranium 234 | 253 | 254.9 |
| Uranium 235 | 4.88 | 4.97 |
| Uranium 238 | 20.2 | 21.8 |

NA – Not applicable

* DCGLs not calculated for some metals. Site Action Levels use ARARs for clean-up goals.

Receptor definition is important for the determination of risks and hazards. Exposure times and multiple pathways place the urban resident at greater risk than an occasional recreational user. The persistence of the affected material would place receptors at risk for over 1,000 years, and land use could change significantly in that amount of time. Both the urban resident and the recreational user have been evaluated for each scenario because of the future land use uncertainty and because it is reasonably foreseeable that the Site would be used for urban residents by the School or other future owners of the Site. Additionally, exposures resulting from each alternative must comply with a 1997 U.S. Nuclear Regulatory Commission (NRC) rule (10 CFR Part 20, Subpart E), which has been adopted by Colorado (6 CCR 1007-1 4.61.3) and establishes a dose criterion for decommissioning a site. This rule includes a provision that permits decommissioning under restricted release conditions, such as those proposed herein. Under a restricted release (a release including an environmental covenant), the dose to the average member of the critical group must not exceed 25 mrem/yr with the restrictions in place, and, if the restrictions were to fail, the dose due to residual radioactivity must not exceed 100 mrem/yr.

Table 3-2
ARARs for Soils, Groundwater, and Surface Water

| Media | Site-Specific Applicable or Relevant and Appropriate Requirements Considered |
|-------------------------------|--|
| Soil | 10 CFR §20.1402 and 1403, NRC Standards for Protection Against Radiation, Radiological Criteria for Unrestricted and Restricted Use – Requires that exposures to onsite receptors do not result in a dose in excess of 25 mrem/yr plus ALARA, and 100 mrem/yr if institutional controls fail for restricted use cleanups. |
| | 6 CCR 1007-1, §4.61.2 – 4.61.3, Colorado Radiation Control regulations, Radiological Criteria for Unrestricted and Restricted Use - Requires that exposures to onsite receptors do not result in a dose in excess of 25 mrem/yr plus ALARA, and 100 mrem/yr if institutional controls fail for restricted use cleanups. |
| | EPA Memorandum, Establishment of Cleanup Levels for CERCLA Sites with Radioactive Contamination, OSWER No. 9200.4-18, August 1997 – Uses a risk-based approach to recommend limiting exposures to less than 15 mrem/yr for NCP compliance. |
| | EPA Memorandum, Reassessment of Radium and Thorium Soil Concentrations and Annual Dose Rates, July 22, 1996 – Initial discussion that resulted in the recommended 15 mrem/yr dose. |
| | EPA Memorandum, Use of Soil Cleanup Criteria in 40 CFR 192 as Remediation Goals for CERCLA Sites, Directive No. 9200.4-25, February 1998 – Clarification of the use of 40 CFR 192 for the development of radionuclide soil Standards. |
| | 40 CFR §192.12, Subpart B; 6 CCR 1007-1, Part 18 Appendix A —Standards for Cleanup of Land and Buildings Contaminated with Residual Radioactive Materials from Inactive Uranium Processing Sites, Standards – Limits radium-226 surface activities (up to 15 cm) to 5 pCi/g and subsurface activities (greater than 15 cm) to 15 pCi/g. For occupied or habitable structures it requires that remedial efforts result in an annual radon decay product concentration (including background) of less than 0.02 WL (in any case the concentration should not exceed 0.03 WL). And interior gamma shall not exceed background by more than 20 microrentgens per hour. |
| | 40 CFR §192.02, Subpart A; 6 CCR 1007-1, Part 18 Appendix A —Standards for the Control of Residual Radioactive Materials from Inactive Uranium Processing Sites, Standards – Specifies that the control of residual radioactive materials and their listed constituents shall be designed to be effective for up to 1,000 years, and in any case for at least 200 years. Also imposes limits on acceptable radon air concentrations and requires groundwater monitoring when necessary. |
| | CDPHE, Proposed Soil Remediation Objectives Policy Document, December 1997, as updated |
| | CDPHE, Revised Proposed Residential/Unrestricted Land-Use Standards, 2003, as updated |
| | EPA Region 9 Memorandum, Region 9 PRGs Table 2002 Update, October 2002 – Describes risk-based approach to soil cleanup and provides table of preliminary remediation goals for soils. CDPHE recommends the use of these PRGs for materials not covered by their proposed soil Standards. |
| | Colorado Environmental Covenant Law: 25-15-317 thru 327, CRS |
| Groundwater and Surface Water | 40 CFR §192.02 Standards, §192.03 Monitoring, §192.04 Corrective Action, Subpart A—Standards for the Control of Residual Radioactive Materials from Inactive Uranium Processing Sites – Details the requirements specific to groundwater. |
| | 40 CFR §192.20 Guidance for implementation, §192.20 Criteria for applying supplemental Standards, Subpart C – Implementation – Additional groundwater requirements. |
| | 40 CFR 141.11, National Primary Drinking Water Regulations, Maximum contaminant levels for inorganic chemicals. |
| | 40 CFR 141.15, National Primary Drinking Water Regulations, Maximum contaminant levels for uranium, radium-226, radium-228, and gross alpha particle radioactivity in community water systems. |
| | 40 CFR 141.51, National Primary Drinking Water Regulations, Maximum contaminant level goals for inorganic contaminants. |
| | 40 CFR 141.55, National Primary Drinking Water Regulations, Maximum contaminant level goals for radionuclides. |
| | 5 CCR 1003-1, Colorado Primary Drinking Water Regulations, Maximum contaminant levels for uranium and arsenic, among other substances. |
| | 5 CCR 1002-41, Colorado Department Of Health, Water Quality Control Commission Regulation No. 41, Basic Standards for Groundwater. |

Table 3-2
ARARs for Soils, Groundwater, and Surface Water

| Media | Site-Specific Applicable or Relevant and Appropriate Requirements Considered |
|-------|---|
| | 5 CCR 1002-8, §3.1.1, Colorado Department Of Health, Water Quality Control Commission Regulation No. 8, Establishes Basic Standards, Anti-degradation Standard, and system for classifying State water. |
| | 5 CCR 1002-38, Colorado Department Of Health, Water Quality Control Commission Regulation No. 38, Classifications And Numeric Standards South Platte River Basin (including Clear Creek as a tributary), Laramie River Basin, Republican River Basin, Smoky Hill River Basin. |
| | 5 CCR 1002-31, Colorado Department Of Public Health And Environment, Water Quality Control Commission, Regulation No. 31, The Basic Standards And Methodologies For Surface Water, Section 31.8 Antidegradation Rule. |
| | Colorado Environmental Covenant Law: 25-15-317 thru 327, CRS |

Attainment of Site performance Standards and clean-up goals is summarized in the following subsections for the three soil areas of this project as well as for the groundwater. These performance Standards and clean-up goals were identical for each soil area due to the common origin of possible impacts. Attainment issues are also discussed in more detail in subsequent sections in this report.

3.1 Main Site

Two soil stockpiles were established for excavated impacted materials: Stockpile A consisted of approximately 200 cubic yards with a mean concentration of Ra-226 of 71.83 pCi/g. Stockpile B consisted of approximately 12,500 cubic yards with a mean concentration of Ra-226 of 13.55 pCi/g. The soil in both piles was solid waste, not hazardous waste.

The two stockpiles were sampled and analyzed to characterize the soil, as well as document compliance with disposal sites' waste acceptance criteria. Table 3-3 shows the average radionuclide and metals sample results for Stockpiles A and B.

Table 3-3
Stockpile Soil Characterization

| Analyte | Stockpile A Average* | Stockpile B Average* |
|---------------------|----------------------|----------------------|
| Radium 226 (pCi/g) | 71.83 | 13.55 |
| Radium 228 (pCi/g) | 2.64 | 2.21 |
| Thorium 228 (pCi/g) | 2.23 | 2.09 |
| Thorium 230 (pCi/g) | 37.85 | 9.14 |
| Thorium 232 (pCi/g) | 2.08 | 1.92 |
| Uranium 234 (pCi/g) | 41.05 | 8.27 |
| Uranium 235 (pCi/g) | 3.24 | 0.72 |
| Uranium 238 (pCi/g) | 41.25 | 8.51 |
| Arsenic (mg/kg) | 38.55 | 33.30 |
| Lead (mg/kg) | 850.00 | 494.70 |
| Mercury (mg/kg) | 3.20 | 4.30 |
| Molybdenum (mg/kg) | 36.00 | 137.00 |
| Vanadium (mg/kg) | 86.50 | 38.00 |

* Arithmetic mean

The Main Site was divided into four survey units in accordance with Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) criteria. At the end of the excavation activities, all Class 1 material was moved to either Stockpile A or B, and the remainder of the Site was classified as a Class 2 area. The maximum size of a Class 2 area is 10,000 square meters. Therefore, the Site required a minimum of three survey units; four survey units were used based on Site topography. A combination of data from samples analyzed by the on-site and off-site laboratories was used to evaluate the success of the clean up. These samples were evaluated using EPA's *Methods for Evaluating the Attainment of Cleanup Standards, Volume 1: Soils and Solid Media* (EPA, 1989). Statistical tests were applied in accordance with Chapter 6, *Determining Whether the Mean Concentration of the Site is Less Than a Cleanup Standard*. All four survey units met final Site Action Levels for all metal and radionuclide constituents of concern at the 95 percent confidence level. Final survey results are presented in the 2007 RI/FS. The Site soils in the Main Site area met the soil Action Levels.

3.2 Clay Pits Area

Two separate efforts were conducted to locate buried CSMRI-related material in the Clay Pits Area. The first investigation was unsuccessful due to the lack of survey information identifying the exact location of the suspected material within the pits. The suspected location of the material was surveyed in 1977 and is known as the Bolis survey. This survey was identified only after the original Clay Pits investigation.

At the request of the Colorado School of Mines, a second subsurface investigation was conducted of the former Clay Pits Area during April 2007. The Clay Pits Area had the same performance Standards as the Main Site and followed the same procedures except as detailed in the work plan letter to the CDPHE dated November 6, 2006. The goal of the investigation was to locate the area suspected to contain former pond sediments, as identified in the Bolis survey, and to determine the nature and extent of the contamination if identified.

The Clay Pits investigation was unable to identify impacts resulting from CSMRI operations; therefore, no further action is required in this area for CSMRI materials. Appendix A contains a letter from the CDPHE radiation unit agreeing that this area does not require further action under this project. The Clay Pits area meets the objectives for this remedial action.

3.3 Flood Plain

The excavation of soil from the Flood Plain Area east of the former pond was completed following guidelines established for the Main Site and presented in the work plan. Not all impacted soil above Action Levels, however, could be excavated from this area. During soil segregation activities, excavation of soil above Action Levels was limited by groundwater, surface water, and large old-growth trees. Additional soil excavation from this area was not practical. After discussions with the CDPHE radiation unit, it was agreed between the School and the CDPHE radiation unit that soil above Action Levels in this area would be left in place provided an environmental covenant placed the necessary restrictions to prevent unacceptable doses. The final condition of the Flood Plain Area, using laboratory data from all remaining non-excavated sample locations, indicates a mean Ra-226 concentration of 4.77 pCi/g, with a 95 percent upper confidence level of 5.5 pCi/g.

The soil remaining above Action Levels was left in place. Clean fill was placed into the excavated areas to re-establish drainage and prevent mosquito breeding sites. The fill soil was taken from uncontaminated piles located on the upper, previously remediated terrace. This action eliminated the safety concerns of leaving open shallow excavations filled with water and reduces the exposure potential of any recreational users. This portion of the Site will have a restrictive environmental covenant placed on it prohibiting residential structures and requiring radon mitigation systems for commercial or industrial structures. Covenants and legacy management issues are discussed further in Section 9.

Access to the Flood Plain Area was limited to a single road that went from the upper bench terrace down the slope to the flood plain. The road has since been removed and re-configured with cobbles to allow for drainage. Erosion control best management practices include erosion mats and wattles to provide slope stability between the bench terrace and the Flood Plain Area.

3.4 Groundwater

This section describes the overall groundwater monitoring network at the CSMRI Site, including monitor well locations, sampled and tested analytes, groundwater flow direction, and recent construction activities that are likely to affect the overall hydrogeologic regime at the Site.

Monitoring Details

Groundwater monitor wells are located in areas likely to detect impacts, if any, to groundwater emanating from the Site as well as at locations that represent background water quality. Figure 3 presents the locations of 11 groundwater monitor wells and the two Clear Creek surface water sample locations. Monitor wells CSMRI-4 and CSMRI-5 are located downgradient from the Site in the Clear Creek flood plain. Well CSMRI-1 is located along Clear Creek upstream from the Site, and well CSMRI-2, as a background water quality monitor well, is located off site on the southeast corner of the freshman parking lot on West Campus Drive. The remaining monitor wells are located within the limits of the Site.

In February 2007, seven new groundwater monitor wells were installed to confirm the effectiveness of the source excavation remedy that was conducted in 2006. Monitor well CSMRI-8 is located along Clear Creek within the Flood Plain Area, and monitor wells CSMRI-1B, CSMRI-6B, CSMRI-7B, CSMRI-9, CSMRI-10, and CSMRI-11 are located on the upland areas and essentially encircle the CSMRI Site source removal area.

In July 2008, two monitor wells (CSMRI-6B and CSMRI-11) were abandoned due to construction activities. These two wells were replaced in December 2008 with CSMRI-6C and CSMRI-11B, respectively.

Clear Creek surface water sample location SW-1 is located approximately 420 feet upstream of the CSMRI Site, and surface water sample location SW-2 is located approximately 150 feet downstream of the Site.

Site groundwater data are discontinuous from 1990 through 2007; however, since March 2007 sampling has been conducted consistently on a quarterly basis. Aqueous samples are tested for the presence of select radioisotopes (radium 226 and radium 228); anions (bicarbonate,

carbonate, chloride, nitrate/nitrite, and sulfate); cations (calcium, manganese, potassium, and sodium); and dissolved uranium. Monitor wells located in the Flood Plain Area are tested for general chemistry analytes (total alkalinity, dissolved organic carbon, ferrous/ferric iron, and dissolved phosphorous). Dissolved metals (arsenic, barium, cadmium, chromium, mercury, silver, and vanadium) are sampled and tested only during the June quarterly sampling event.

Summary tables in Appendix C present historical analytical data for the groundwater monitor well, including radioisotopes and metals. Table C-1 presents data from 1991 to 2003 for a limited set of groundwater wells. Tables C-2 and C-3 present recent (September 2007 through March 2009) groundwater analytical data for dissolved radioisotopes and metals, respectively. Surface water analytical data are presented in Tables C-4 and C-5.

Groundwater Flow Regime

Groundwater flow direction on the bench terrace area, as measured by the existing network of monitor wells, is typically to the northeast from the baseball field and then arcing to the north toward the Flood Plain Area. Groundwater flow direction and gradient are updated quarterly and reported in each quarterly monitoring report.

Recent construction activities at the CSMRI Site may have an effect on the overall hydrogeologic regime, including groundwater flow direction, saturated aquifer thickness, and groundwater quality. During the latter part of 2007 and through 2008, an artificial-turf soccer field was built over a portion of the former CSMRI Site, and a practice football field with artificial turf was built to the south of the CSMRI Site. Both fields have underlying drainage beds with perimeter drains conveying collected precipitation to the north and discharging to the Flood Plain Area.

A portion of the Welch Ditch located near background monitor well CSMRI-2 was closed in late 2007 with flow now piped to Washington Avenue in Golden and then to down-ditch users. The effects of the artificial turf fields and their associated drains and the closure of a portion of the Welch Ditch as a source of recharge to groundwater due to leakage are likely to result in lower potentiometric surface elevations.

The levels of uranium in groundwater, which have not attained the Colorado groundwater standard for uranium for some of the monitoring wells on the Site, are expected to continue to fluctuate resulting from the excavation and off-site disposal of source materials. However, it is anticipated that legacy management of groundwater, including monitoring of the elevated concentrations above the Colorado groundwater standard for uranium may be required until the Standard is met. The groundwater will have an environmental covenant placed on it that prohibits use of the water.

Groundwater in the shallow alluvium/colluvium has been shown to contain elevated concentrations of uranium, a Site contaminant of concern that also occurs naturally in the bedrock formations and in the surficial deposits that comprise the Site. The groundwater uranium concentrations have been attributed to infiltrating water resulting in migration of radionuclides from source materials located on the Site.

The majority of the source material was excavated and disposed in an off-site landfill. However, a two-year monitoring period is currently being conducted to confirm the effectiveness of the Selected Remedy and to review the Legacy Management Plan. The current groundwater monitoring program consisting of quarterly sampling and analysis will continue until concentration levels drop to either below the Colorado groundwater standard or indicate a trend sufficient to demonstrate success of the remedy at addressing the uranium contamination in the groundwater.

3.4.1 Groundwater Analytical Discussion

As discussed previously, performance Standards, goals, and ARARs are associated with the groundwater. A discussion concerning groundwater chemistry as it relates to the ARARs is presented below and in detail in the document *Draft Implementation Report, Groundwater Monitoring Well Installation*, dated June 2007 (Stoller, 2007c).

Ions and General Chemistry

Beginning in March 2007, groundwater samples have been collected quarterly from Site monitor wells and from two Clear Creek surface water sample locations. As groundwater flows through either saturated bedrock or sediments, it assumes a unique geochemical ionic composition as a result of the chemical interaction of the host media.

Analyses of the anions and cations were initially conducted during the first quarter of 2007, and since the third quarter of 2008 (September), are conducted routinely as part of the overall sampling program. Results of the ionic analyses indicate three distinct types of groundwater within the monitored area of the former CSMRI Site. Some monitor wells are consistently the same water type between each sampling event while others vary in water types.

The March 2009 sampling event indicates groundwater from monitor wells CSMRI-2, CSMRI-5, CSMRI-9, and CSMRI-10 is identified as calcium-bicarbonate (Ca-HCO_3) type water; monitor wells CSMRI-2 and CSMRI-10 have consistently remained a Ca-HCO_3 water type through most of the past sampling events while CSMRI-5 and CSMRI-9 have previously been a calcium-chloride (Ca-Cl) type water. Monitor wells CSMRI-4 and CSMRI-8 and the two Clear Creek sample locations SW-1 and SW-2 have consistently been characterized as calcium-sulfate (Ca-SO_4) type water throughout the sampling events. The influence of Clear Creek on the two flood plain monitor wells becomes apparent in that the water types are identical; however, monitor well CSMRI-5 is also located in the Flood Plain Area yet is of a different water type (Ca-HCO_3) as described above. Monitor well CSMRI-1 in the March 2009 sampling event is characterized as a Ca-Cl water type and has remained unchanged in the past three of four ionic sampling events.

Results of the ionic analyses for the March 2009 quarterly sampling event using the geochemical analysis software AqQA® are presented in Appendix D. Appendix D also presents a Piper trilinear diagram of the CSMRI groundwater. Ionic balances between the sum of the tested anions and cations as milliequivalents per liter (meq/L) range between 1 percent to 4.8 percent.

The Piper diagram shows the similarity of the groundwater for the monitor wells where the symbols representing each of the monitor well ionic sample results are plotted on the same graphs.

The diamond-shaped graph between the cation triangle on the left and the anion triangle on the right is used to represent the composition of the groundwater with respect to both the anions and cations. The diamond-shaped graph shows that most of the groundwater samples are similar at CSMRI in that they are grouped relatively close to each other, except for the pale green triangle of CSMRI-2, which appears to be geochemically different from the other groundwater samples.

Low dissolved oxygen (DO) values are associated with the three groundwater monitor wells located in the Flood Plain Area. The June 2009 sampling event field parameters indicate low values ranging from 2.82 milligrams per liter (mg/L) at CSMRI-8 to 4.99 mg/L at CSMRI-5, while DO values at other monitor wells on the CSMRI Site range from 5.6 mg/L to 14.3 mg/L. Field derived oxidation-reduction potential (ORP) values are measured and recorded during the monitor well purging and sampling process, and negative values are noted in monitor wells locations CSMRI-1B, CSMRI-4, and CSMRI-5. The low DO values and negative ORP values associated with monitor wells CSMRI-4 and CSMRI-5 in the Flood Plain Area indicate chemically reducing conditions. Oxygenated water from Clear Creek appears to be entering the Flood Plain Area near CSMRI-8 and mobilizing uranium from a nearby source. As the creek water mixes with the hyporheic zone associated with upwelling from bedrock and from groundwater migrating from the CSMRI Site down the bench terrace slope into the Flood Plain Area, the groundwater in the flood plain becomes reduced and lowers the concentration of uranium in the groundwater as measured at monitor well locations CSMRI-4 and CSMRI-5. Oxygenated water from Clear Creek appears to be entering the Flood Plain Area near CSMRI-8 and mobilizing uranium from a nearby source. As the creek water mixes with upwelling groundwater associated with bedrock and from groundwater migrating from the CSMRI Site, the groundwater in the flood plain becomes geochemically reduced (lower oxygen content). The uranium precipitates out in the reduced groundwater with the net effect of lowering the concentration of uranium in the groundwater as measured at monitor well locations CSMRI-4 and CSMRI-5.

Water temperature provides a line of physical evidence that surface water and groundwater are mixing in the Flood Plain Area. With such mixing, the temperature of the flood plain groundwater would be expected to vary during the course of each year due to its interaction with surface water from Clear Creek. Available field-derived water sample temperature data from two sampling events in 2009 indicate groundwater from the monitor wells on the bench terrace is relatively stable and ranges from 11+ to 14° C during the spring and summer months. In the Flood Plain Area, the water temperature at CSMRI-8 is closely aligned with the temperature of Clear Creek at about 12° C but with groundwater that is somewhat cooler at monitor well locations CSMRI-4 and CSMRI-5 at 7.0 and 6.8°C, respectively. The water temperature difference associated with these two wells may be associated with nearby springs emanating from the bench terrace. Additional evidence for a unique groundwater source in the area of CSMRI-8 is the sulfate concentration of 530 mg/L measured in March 2009, whereas comparable concentrations at most other Site wells at this time fell in the range of 62 to 190 mg/L.

Radioisotopes

Aqueous sampling and testing for radioisotopes includes the analytes radium 226 and radium 228. Thorium isotopes 228, 230, and 232 were initially part of the analyte list but were dropped

after several sampling events indicated low detected activity. The CDPHE radiation unit concurred with the decision to eliminate sampling for the thorium isotopes.

The results of the March 2009 sampling event indicate the sum of the activity of radium isotopes 226 and 228 at background monitoring well CSMRI-2 was detected at 5.05 pCi/L, barely exceeding the MCL of 5 pCi/L. This well is the site's background, up-gradient monitoring well. This data may indicate naturally occurring radium isotopes within the formations underlying this area. At a minimum, this data is not indicative of site issues. Radium exceedances at this location occurred in 1995 and then again in two of four quarterly sampling events in 2003. Monitoring will continue at this location to assess the sporadic nature of these isotopes. No other monitor wells have indicated exceedances of radium isotopes.

Metals

Aqueous sampling and testing for dissolved metals includes dissolved uranium for all quarterly sampling events; and the metals arsenic, barium, cadmium, chromium, mercury, silver, and vanadium for the June quarterly sampling event. The sampling and analytical testing of the dissolved metals only during the June quarterly sampling event are with the concurrence of the CDPHE radiation unit. Except for uranium, previous sample results have indicated no exceedances of any of the tested metals.

The results of the groundwater monitoring indicate exceedances of uranium above the groundwater standard at three monitor wells. Two of the monitor wells, CSMRI-4 and CSMRI-8, are located in the Flood Plain Area and one monitor well, CSMRI-9, is located at the edge of the bench terrace immediately south of the Flood Plain Area.

The exceedances of uranium at CSMRI-4 have been persistent since at least the early 1990s. Sampling of this monitor well was initially sporadic, but the sampling is now conducted quarterly. This monitor well is in the vicinity of the former tailings pond area, which was excavated by an EPA contractor under a removal action in 1992. The June 2009 quarterly sampling results indicate a concentration of uranium at 110 micrograms per liter ($\mu\text{g/L}$), above the State of Colorado Groundwater Quality Standard of 30 $\mu\text{g/L}$.

The exceedances of uranium at CSMRI-8 have been persistent from when the monitor well was initially installed in February 2007. This monitor well is located west and upstream of the former tailings pond area. The initial sample results indicated a concentration of uranium at 1,100 $\mu\text{g/L}$. The June 2009 quarterly sampling results indicate a concentration of uranium at 700 $\mu\text{g/L}$. This value is significantly reduced from previous sampling events. The observed elevated concentrations detected at monitoring well CSMRI-8 may be the result of one or several of the following:

- Soil surrounding the well contains residual uranium from the former tailings pond.
- The well contains residual uranium from the former Building 101 area at the top of the bench terrace above the flood plain.
- The well is located in a zone where strong mixing between creek water and groundwater occurs, and the oxidizing conditions associated with creek water causes uranium to

dissolve more readily. Seasonal changes in mixing proportions may be causing fluctuations in uranium concentrations.

Given the apparent likelihood that surface water from Clear Creek is infiltrating the subsurface near CSMRI-8, additional continuing data collection will further the understanding of whether uranium concentrations at CSMRI-8 and CSMRI-4 remain elevated throughout the year or tend to fluctuate in response to temporally variable inflow of surface water into the groundwater system. The flows through and chemistry of hyporheic zones associated with most rivers and streams change over time in response to multiple factors, including stream stage, stream bed sedimentation, locations of stream bends with respect to flood plain alluvium, and the relative locations of pools and riffles within a stream. If the mixing is a seasonal phenomenon, low-flow periods on the creek might provide a time window for uranium levels to build up in nearby bedrock such that subsequent hyporheic flows during periods of high runoff remobilize uranium in groundwater.

The recent exceedance of uranium at CSMRI-9 may be associated with the rise in the water table due to the wetter-than-average May and June 2009 months. Since March 2007, the concentration of dissolved uranium has fluctuated slightly above to slightly below the groundwater standard of 30 µg/L. During the most recent sampling event in late June 2009, uranium was detected at a concentration of 99 µg/L. The recent elevated presence of uranium at this location may be attributed to the completion of the recently constructed soccer field immediately to the south of CSMRI-9 and the unknown effect the artificial turf field with perimeter drains will have on the overall hydrologic regime of the CSMRI Site. Quarterly sampling will continue at this location and the analytical data will be used to assess the concentration trends of uranium at this location.

3.4.2 Groundwater Analytical Conclusions

The results of seven quarterly sampling events of the existing network of monitor wells indicate exceedances of uranium at two groundwater monitor wells located within the Flood Plain Area and at one monitor well located on the bench terrace immediately south of the flood plain. Oxygenated water from Clear Creek appears to be entering the Flood Plain Area in the vicinity of CSMRI-8 and mobilizing uranium from a nearby source. The concentration of uranium then becomes reduced as the groundwater interacts in the hyporheic zone as it migrates through the flood plain. The recent exceedance of uranium at CSMRI-9 above the flood plain will be monitored during future sampling events.

Geochemical analyses indicate three different types of water have been identified at the CSMRI Site: Ca-Cl, Ca-HCO₃, and Ca-SO₄ waters. Most monitor wells change seasonally between Ca-Cl and Ca-HCO₃-type waters. However, monitor wells CSMRI-4 and CSMRI-8, and surface water locations SW-1 and SW-2 have consistently remained Ca-SO₄-type water through the sampling events.

The radioisotopic data for radium above water quality standards at the CSMRI-2, the upgradient, background well is not related to any possible contamination from CSMRI activities. The dissolved metals data indicate no exceedances of any standards for monitored metals.

4. Quality Assurance/Quality Control Procedures

The QA/QC procedure and requirements for areas of discussion in this report can be referenced in Section 7 of the *CSMRI Creekside Site Final Site Characterization Work Plan* dated May 12, 2006.

In summary, the purpose of the Quality Assurance Project Plan (QAPP) was to document the procedures required for QA, QC, data verification and validation, and data quality assessment for sampling and analysis activities related to the CSMRI Site project. The goal of the QAPP was to identify and implement the QA/QC practices associated with sampling and analytical methodologies that limit the introduction of error into analytical data. The QAPP provided the methodology to ensure that project data were of adequate quantity, quality, and usability for their intended purpose, and further ensured that such data were authentic, appropriately documented, and technically defensible.

Quality assurance elements are the procedures used to control those immeasurable components of a project such as using the proper sampling techniques, collecting a representative sample, specifying the proper analysis, etc. Although not measurable, quality assurance procedures are essential to produce quality information.

Quality control data are the data generated to estimate the magnitude of bias and variability in the processes for obtaining the environmental data. These processes include both the field processes for obtaining the data and the laboratory analyses.

Data quality assessment is the overall process of assessing the quality of the environmental data by reviewing the application of the QA elements, the analysis of the QC data, and results of the data verification and validation. Quality assessment encompasses both the measurable and immeasurable factors affecting the quality of the environmental data. Assessment of these factors may identify limitations that require modifications to procedures or protocols for sample collection and analysis or affect the desired interpretation and use of the data.

The QAPP was developed in accordance with the requirements in *Guidance for Quality Assurance Project Plans* (EPA, 2002).

5. Construction Activities

Complete details of the stockpiled soil disposal procedures and justification for techniques used are provided in the *Colorado School of Mines Research Institute Stockpiled Soil Disposal Work Plan* (Stoller, 2007e). The soil was stockpiled as detailed in the *CSMRI Creekside Site Final Site Characterization Work Plan* (Stoller, 2006a).

Stoller excavated the contaminated soils and made two stockpiles at the Site. Stockpile A contained 175 cubic yards with an average of 71.83 pCi/g Ra-226, and Stockpile B consisted of approximately 12,500 cubic yards with an average of 13.55 pCi/g Ra-226.

A public meeting was held on May 30, 2007, and public comment was received on the RI/FS and the Proposed Plan. A Record of Decision was published on July 10, 2007. The Record of

Decision responded to public comment and selected off-site disposal and environmental covenants as the remedy.

Construction activities took place between August 20, 2007 and September 7, 2007. During this time, the two soil stockpiles were loaded out and transported by truck to the Foothills Landfill and the Clean Harbors Deer Trail Landfill.

Soil from Stockpile A was shipped to the Clean Harbors Deer Trail facility in eastern Colorado on August 20, 2007. Eleven lined trucks containing Stockpile A soil were shipped.

Soil from Stockpile B, including soil from the Main Site as well as the Flood Plain Area, was shipped to the Allied Waste BFI Foothills Landfill between August 21, 2007 through September 7, 2007. A total of 615 trucks containing Stockpile B soil plus nine trucks containing other debris from the Site were shipped.

Briefly, the procedure for stockpiled soil shipment was as follows:

- All truckers and Site personnel were assembled for a briefing and safety meeting prior to starting any work on the Site.
- Calibrated radiological survey equipment was performance tested each day prior to use.
- An initial baseline survey for contamination was performed on the trucks and heavy equipment when they first arrived at the Site.
- Truckers were provided with a waste manifest, and if they were returning from a previous load, they submitted their weigh tickets.
- A plastic liner was placed and secured in each truck used to ship soil from Stockpile A.
- The trucks entered the Site, were staged adjacent to the stockpile, and were loaded with contaminated soil.
- The trucks exited the loadout area and were surveyed for contamination and dose rate. The readings were recorded on a survey form.
- The trucks were inspected for any loose spillage and the load covered prior to departure from the Site.
- Each outgoing shipment was recorded on a Truck Departure Record Form.
- After their final load, trucks returned to the Site to deliver their final weigh ticket and to obtain a final radiological survey for “free release.”

A photo log of the waste loadout and disposal is included as Appendix E.

Personnel records were maintained for all people on Site. Signature sheets for morning safety meetings, visitor sign-in logs, and worker sign-in logs are included in Appendix F. Sign-in logs were maintained to provide data to allow the calculation of exposure dose for each person involved in the project.

Each instrument was performance tested and source checked daily with respect to local background. Performance test record sheets are shown in Appendix G.

Appendix H, on CD, contains copies of the daily Truck Departure Record Forms, truck radiation survey form, weigh ticket, and non-hazardous waste manifest for each truck.

Appendix I contains final radiological release surveys for the trucks and heavy equipment.

Each day, the global positioning system (GPS) coordinates of the disposal location at the Allied Waste Foothills Landfill were recorded. All soil was deposited in the same area of the landfills; variation in the GPS readings is due to precision limitations in the GPS equipment. Allied Waste indicated the GPS elevation readings were incorrect based on a survey marker located adjacent to the soil disposal area. Although we are providing the GPS readings, the location and elevation of the soil was the responsibility of Allied Waste. Nonetheless the disposal locations were consistent with the risk assessment that was performed and the soils were placed at the required location within the landfill. Appendix J contains the GPS coordinates.

Two particulate air samplers were operational during soil stockpile load out activities as part of the monthly air monitoring of the CSMRI Site. The samplers were moved closer to the stockpiled soil while maintaining their relative location (i.e., upwind and downwind). The air sampler filters were replaced weekly during the soil load out activities and counted on Site for gross alpha and gross beta. The filters were also submitted to Paragon Analytics for radioisotopic activity counting. Isotopic parameters selected for analysis included gross alpha, gross beta, radium-226, thorium-228, thorium-230, uranium-234, uranium-235, uranium-238, and total uranium. These analytes are for the same analytes that have been monitored at the CSMRI Site since February 2005. The results of the weekly filter screening and off-site laboratory filter analyses indicate no exceedances above the Colorado air effluent Standards. Raw data and results are provided in Appendix K.

Routine dose rate surveys were conducted in the exclusion area near the exposed front of the stockpile at the time. The purpose of these surveys was to document that personnel dosimetry was not required for this job. Measured dose rates in the general work area near the soil ranged from 22 to 28 microrem per hour. Background readings ranged from 20 to 21 microrem per hour. Dose rate surveys are provided in Appendix L.

6. Final Inspection/Site Closure

After all stockpiled soil and the stockpile liners were transported off site, surveys of the stockpile footprints were completed and samples taken. The results of final confirmatory samples are presented in Tables 6-1, 6-2, and 6-3, including summary statistics. Table 6-1 shows results for metals samples that were submitted to the analytical laboratory. Table 6-2 shows results for radionuclide samples (with the exception of Ra-226) that were submitted to the analytical laboratory. Table 6-3 shows Ra-226 results for samples that were analyzed by the shielded sodium iodide counting system used during the soil segregation work along with the samples that were submitted to the analytical laboratory for final confirmation.

Table 6-1
Metals Data Under Stockpile Area (mg/kg)

| Sample # | Arsenic | Lead | Mercury | Molybdenum | Vanadium |
|---------------------------|---------|-------|---------|------------|----------|
| 20070906-1290 | 13 | 110 | 0.41 | 3.9 | 30 |
| 20070906-1293 | 11 | 120 | 0.78 | 3.4 | 26 |
| 20070906-1302 | 9.7 | 53 | 0.52 | 1.8 | 26 |
| 20070906-1304 | 14 | 130 | 0.83 | 5.1 | 30 |
| 20070906-1311 | 12 | 55 | 0.4 | 2 | 20 |
| 20070906-1313 | 8.3 | 79 | 0.49 | 3.9 | 25 |
| Mean | 11 | 91 | 0.6 | 3.4 | 26 |
| standard deviation | 2.11 | 33.49 | 0.19 | 1.26 | 3.71 |
| EPA 95% confidence limit* | 1.74 | 27.55 | 0.15 | 1.03 | 3.05 |
| mean + confidence limit | 13.1 | 118.7 | 0.7 | 4.4 | 29.2 |
| Site Action Level | 39 | 400 | 23 | 390 | 550 |

*Upper one-sided confidence limit, calculated from Equation 6.8, Computing the Upper One-sided Confidence Limit, From Chapter 6 of EPA's *Methods for Evaluating the Attainment of Clean up Standards, Volume 1: Soils and Solid Media* (EPA 1989).

Table 6-2
Radionuclide Data Under Stockpile Area (except Ra-226) (pCi/g)

| Sample # | Ra-228 | Th-228 | Th-230 | Th-232 | U-234 | U-235 | U-238 |
|---------------------------|--------|--------|--------|--------|-------|-------|-------|
| 20070906-1290 | 1.45 | 1.56 | 3.13 | 1.35 | 2.18 | 0.065 | 2.36 |
| 20070906-1293 | 1.55 | 1.69 | 4.42 | 1.72 | 3.64 | 0.198 | 3.89 |
| 20070906-1302 | 1.14 | 1.79 | 1.69 | 1.7 | 1.1 | 0.074 | 1.17 |
| 20070906-1304 | 2.28 | 1.99 | 2.97 | 2.15 | 2.46 | 0.117 | 2.41 |
| 20070906-1311 | 1.8 | 2.06 | 1.3 | 2.1 | 1.18 | 0.062 | 1.17 |
| 20070906-1313 | 1.85 | 1.65 | 2.21 | 1.68 | 1.84 | 0.107 | 2.23 |
| Mean | 1.68 | 1.79 | 2.62 | 1.78 | 2.07 | 0.10 | 2.21 |
| standard deviation | 0.39 | 0.20 | 1.13 | 0.30 | 0.94 | 0.05 | 1.00 |
| EPA 95% confidence limit* | 0.32 | 0.16 | 0.93 | 0.25 | 0.77 | 0.04 | 0.83 |
| mean + confidence limit | 2.00 | 1.95 | 3.55 | 2.03 | 2.84 | 0.15 | 3.03 |
| Site Action Level | 4.6 | 6.47 | 11.53 | 3.88 | 254.9 | 4.97 | 21.8 |

*Upper one-sided confidence limit, calculated from Equation 6.8, Computing the Upper One-sided Confidence Limit, From Chapter 6 of EPA's *Methods for Evaluating the Attainment of Clean up Standards, Volume 1: Soils and Solid Media* (EPA 1989).

Table 6-3
Ra-226 Data Under Stockpile Area (pCi/g)

| Sample # | Nal Ra-226 (pCi/g) | Field Nal reading (cpm) | Under Stockpile | Duplicate (not counted in stats) | Paragon Ra-226 (pCi/g) |
|---------------|--------------------|-------------------------|-----------------|----------------------------------|------------------------|
| 20070906-1283 | 3.8 | 17,595 | A | | |
| 20070907-1284 | 3.9 | 21,138 | A | | |
| 20070906-1285 | 4.9 | 21,138 | A | Duplicate | |
| 20070906-1286 | 3.9 | 18,447 | A | | |
| 20070906-1287 | 3.2 | 19,071 | A | | |
| 20070906-1288 | 3.0 | 17,201 | A | | |
| 20070906-1289 | 4.0 | 17,330 | A | | |
| 20070906-1290 | 7.1 | 19,263 | A | | 7.50 |
| 20070906-1291 | 2.8 | 16,177 | A | | |

Table 6-3
Ra-226 Data Under Stockpile Area (pCi/g)

| Sample # | Nal Ra-226 (pCi/g) | Field Nal reading (cpm) | Under Stockpile | Duplicate (not counted in stats) | Paragon Ra-226 (pCi/g) |
|---|--------------------------|----------------------------|--------------------|-------------------------------------|---------------------------------|
| 20070906-1292 | 4.4 | 16,764 | A | | |
| 20070906-1293 | 6.1 | 23,197 | A | | 9.10 |
| 20070906-1294 | 2.5 | 16,014 | B | | |
| 20070906-1295 | 4.5 | 18,140 | B | | |
| 20070906-1296 | 4.2 | 16,553 | B | | |
| 20070906-1297 | 3.5 | 14,537 | B | | |
| 20070906-1298 | 2.8 | 14,871 | B | | |
| 20070906-1299 | 4.2 | 17,725 | B | | |
| 20070906-1300 | 3.8 | 17,725 | B | duplicate | |
| 20070906-1301 | 3.0 | 15,952 | B | | |
| 20070906-1302 | 3.3 | 16,952 | B | | 2.15 |
| 20070906-1303 | 4.1 | 17,541 | B | | |
| 20070906-1304 | 3.9 | 17,699 | B | | 3.96 |
| 20070906-1305 | 3.8 | 15,524 | B | | |
| 20070906-1306 | 4.6 | 15,852 | B | | |
| 20070906-1307 | 3.6 | 17,463 | B | | |
| 20070906-1308 | 3.9 | 17,384 | B | | |
| 20070906-1309 | 3.9 | 15,402 | B | duplicate | |
| 20070906-1310 | 3.2 | 15,402 | B | | |
| 20070906-1311 | 3.5 | 18,882 | B | | 1.77 |
| 20070906-1312 | 3.5 | 18,607 | B | | |
| 20070906-1313 | 3.8 | 17,830 | B | | 3.07 |
| 20070906-1332 | 3.1 | 15,406 | B | | |
| 20070906-1333 | 3.4 | 14,498 | B | | |
| For all field data | | | | | For field plus lab data |
| mean | 3.81 | | | | mean 3.81 |
| standard deviation | 0.93 | | | | standard deviation 1.41 |
| EPA 95% confidence limit* | 0.288 | | | | EPA 95% confidence limit* 0.438 |
| mean + confidence limit | 4.1 | | | | mean + confidence limit 4.2 |
| For alpha = 0.10 EPA 90% confidence limit = 0.338 mean + confidence limit = 4.1 So the mean is less than the Action Level with 90% confidence | | | | | |

*Upper one-sided confidence limit, calculated from Equation 6.8, Computing the Upper One-sided Confidence Limit, From Chapter 6 of EPA's *Methods for Evaluating the Attainment of Clean up Standards, Volume 1: Soils and Solid Media* (EPA 1989).

Nal = Sodium Iodide Counting System

The Site was inspected by Edgar Ethington and Philip Stoffey from the CDPHE radiation unit on September 24, 2007. Mr. Stoffey surveyed the former locations of the soil stockpiles for elevated gamma readings while Mr. Ethington inspected the Flood Plain Area. Mr. Stoffey confirmed that stockpiled soil was completely taken off site and did not identify any elevated gamma readings.

Soil excavation in the Flood Plain Area had been halted due to the excavations reaching groundwater, the proximity of Clear Creek, and the presence of old-growth trees making it impracticable to continue. After discussions with Mr. Ethington, it was agreed between the School and the CDPHE radiation unit that soil above Action Levels in this area would be left in place provided an environmental covenant was placed with the necessary restrictions to prevent unacceptable doses.

7. Operations and Maintenance

Since no active systems were installed as part of the remedy, no operations and maintenance requirements are associated with remedy implementation.

8. Project Costs

Using the information gathered during the remedial investigation phase, possible remedial technologies were identified. After a screening process, five remedial alternatives (in addition to the no further action alternative) were identified as part of the feasibility study phase. The preferred alternative presented in the 2007 Revised RI/FS was the off-site disposal of the impacted material at two landfills, with ongoing groundwater monitoring and an environmental covenant, or Alternative 5B. After consideration of input and comments by reviewers of the 2007 Revised RI/FS, including CDPHE and the local community, Alternative 5B was chosen as the selected remedy in the Record of Decision. Tables 8-1 and 8-2 present an overview of cost information for each alternative analyzed in the RI/FS.

Table 8-1
Cost Information for Each Alternative
including Stigma Value (in millions of dollars)

| Alternative | Description | Cost from Spreadsheet | Property Value Loss | Total Cost |
|-------------|---|-----------------------|---------------------|------------|
| 1 | No further action | \$ 4.07 | \$ 0.46 | \$ 4.53 |
| 4A | On-site solidification and cap Stockpile B, ship Stockpile A off site | \$ 5.18 | \$ 0.46 | \$ 5.64 |
| 4AA | Solidify both stockpiles and cap | \$ 5.13 | \$ 0.46 | \$ 5.59 |
| 4B | On-site engineered disposal cell for Stockpile B, ship Stockpile A off site | \$ 5.21 | \$ 0.46 | \$ 5.67 |
| 4BB | On-site engineered disposal cell for both stockpiles | \$ 5.15 | \$ 0.46 | \$ 5.61 |
| 5A | Off-site disposal at solid waste facility – all to Idaho | \$ 3.29 | \$ 0 | \$ 3.29 |
| 5B | Off-site disposal at two waste facilities – BFI and U.S. Ecology in Idaho | \$ 0.85 | \$ 0 | \$ 0.85 |

Table 8-2
Estimated Cost Information for Each Alternative

| Cost Breakout | Alternative Cost (in thousands of dollars) | | | | | | |
|---------------------------------|---|--------|--------|--------|--------|--------|--------|
| | 1 | 4A | 4AA | 4B | 4BB | 5A | 5B |
| Mobilization | \$ 0 | \$ 58 | \$ 58 | \$ 65 | \$ 65 | \$ 28 | \$ 28 |
| Construct Site Facilities Costs | \$ 0 | \$ 72 | \$ 72 | \$ 103 | \$ 103 | \$ 180 | \$ 102 |
| Soil Movement Costs | \$ 0 | \$ 175 | \$ 175 | \$ 149 | \$ 149 | \$ 147 | \$ 77 |

Table 8-2
Estimated Cost Information for Each Alternative

| Cost Breakout | Alternative Cost (in thousands of dollars) | | | | | | |
|-------------------------------------|---|----------|----------|----------|----------|---------|--------|
| | 1 | 4A | 4AA | 4B | 4BB | 5A | 5B |
| Solidification Costs | \$ 0 | \$ 321 | \$ 324 | \$ 0 | \$ 0 | \$ 0 | \$ 0 |
| Construct Cell Costs | \$ | \$ 0 | \$ 0 | \$ 242 | \$ 242 | \$ 0 | \$ 0 |
| Disposal Costs | \$ 0 | \$ 54 | \$ 0 | \$ 54 | \$ 0 | \$ 2870 | \$ 580 |
| Engineering Cap Costs | \$ 0 | \$ 321 | \$ 321 | \$ 446 | \$ 446 | \$ 0 | \$ 0 |
| Stabilize Site and Monitoring Costs | \$ 4070 | \$ 4,120 | \$ 4,120 | \$ 4,101 | \$ 4,101 | \$ 34 | \$ 34 |
| Demobilization | \$ 0 | \$ 42 | \$ 42 | \$ 32 | \$ 32 | \$ 26 | \$ 26 |
| Total | \$ 4070 | \$ 5184 | \$ 5132 | \$ 5206 | \$ 5152 | \$ 3285 | \$ 847 |
| Rank | 3 | 6 | 4 | 7 | 5 | 2 | 1 |
| Ratio to Least Expensive | 4.8:1 | 6.1:1 | 6.1:1 | 6.1:1 | 6.1:1 | 3.8:1 | 1 |

The actual cost for the implementation of the selected alternative is presented in Table 8-3.

Table 8-3
Actual Cost for the Implementation of the Selected Remedy

| Cost Category | Organization | Organization | Total |
|------------------------------|---------------------|--------------------------|-----------|
| Management Costs | Stoller = \$136,000 | CSM = \$47,000 | \$183,000 |
| Disposal Costs | BFI = \$349,000 | Clean Harbors = \$37,000 | \$386,000 |
| Earthwork and Trucking Costs | \$228,000 | | \$228,000 |
| Total Costs | | | \$797,000 |

9. Covenants/Legacy Management

The Site is divided into three soil areas, plus groundwater each having differing closures, environmental covenants, and legacy management. The environmental covenants being placed on the Site are depicted on Figure 4, are described in the following sections, and copies of which are provided in Appendix M. The Clay Pits Area does not require an environmental covenant for CMSRI ores and sludges.

9.1 Main Site Soil Area

After excavation and movement of contaminated soil to the stockpiles, the Main Site soil area was divided into four survey units for final survey. All metals and radionuclides in soil were below the Action Levels with a 95 percent confidence level. At the completion of the stockpiled soil disposal, a final survey was conducted under the stockpile footprints, and as shown previously in Tables 6-1 and 6-2, the final confirmatory sample results for metals and radionuclides (except Ra-226) are below the Site Action Levels presented in the approved Site remediation work plan.

Table 6-3, shown previously, gives results for the Ra-226 samples and shows the mean plus confidence limit for all the field sodium iodide results meets the Site Action Level of 4.1 pCi/g. However, when the analytical laboratory data are used to replace the sodium iodide data, the mean plus confidence limit is 4.2 pCi/g, or one tenth of one pCi/g above the Action Level. These are results obtained when using alpha = 0.5, equivalent to the 95 percent confidence limit. By using alpha = .10, it can be seen that the mean plus confidence limit meets the Action Level with a 90 percent confidence limit.

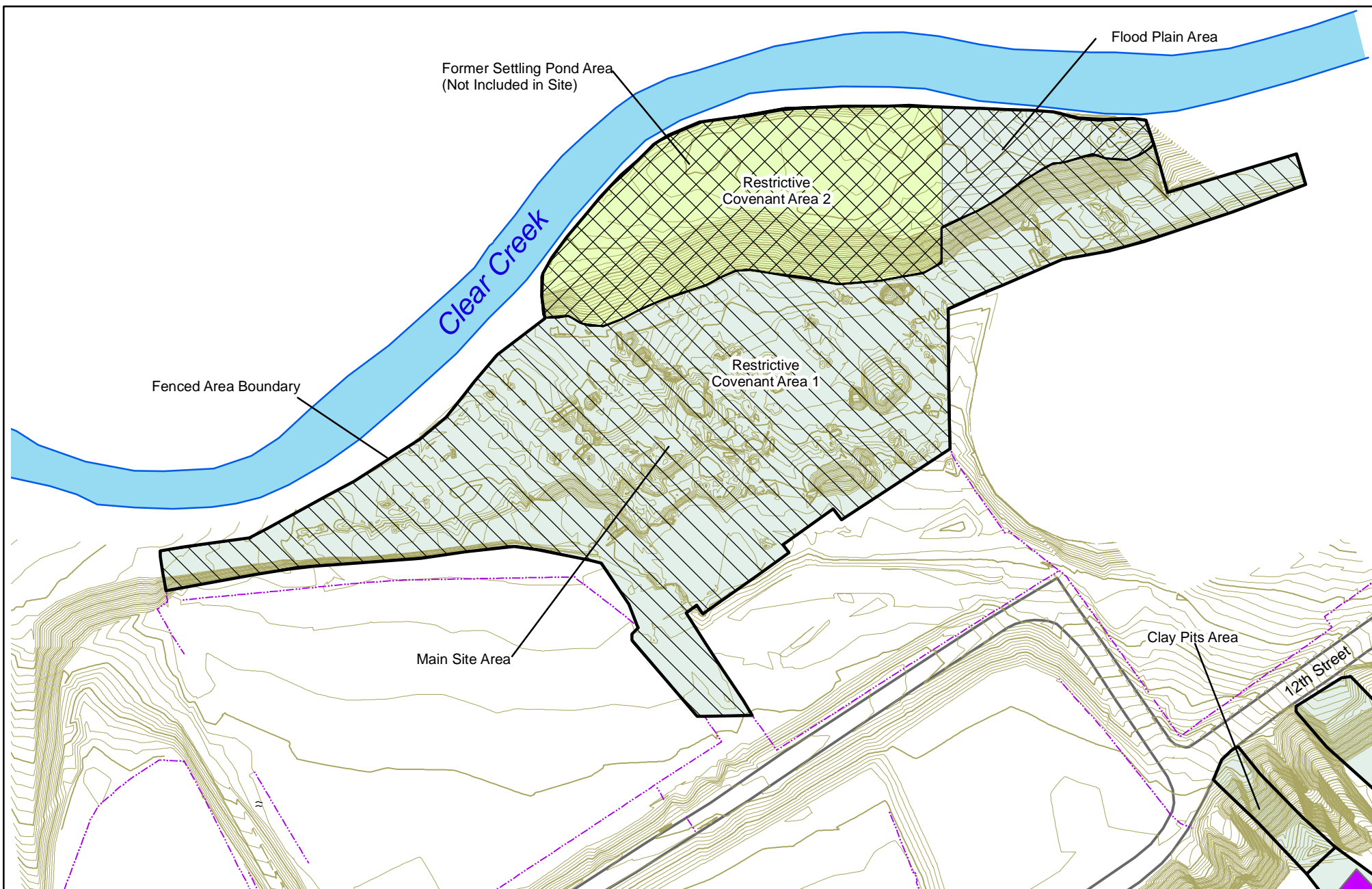
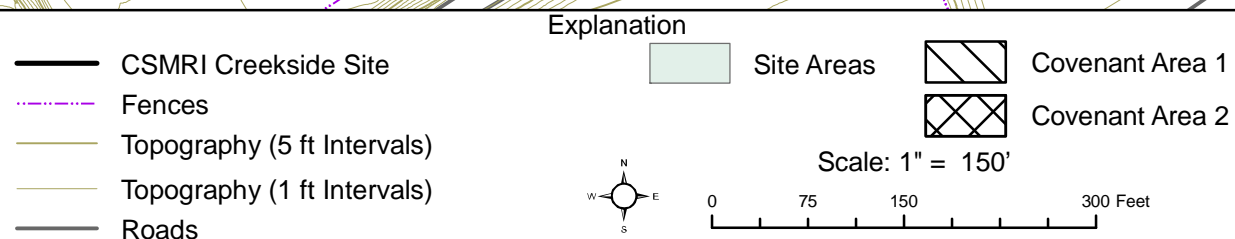


Figure 4
CSMRI Site Map
Showing Areas &
Convenants



Stoller

Remediation of Site stockpiled soils was completed by the transportation from the Site of 11 truck loads of Stockpile A soil, 615 truck loads of Stockpile B soil, and nine truck loads of Site debris. Site soils now meet the Action Levels and qualify for restricted uses consistent with the environmental covenant for this portion of the Site. The air monitoring operations and associated reporting are being discontinued. The two air monitoring stations have been removed. The fence securing the Site has been removed. The soil in the upper terraced portion of the Site is available for all uses consistent with the environmental covenant.

The Main Site Area includes the upper terrace and has been remediated to the Site's Action Levels. One of the Site remedial action objectives, however, which is also part of the ARARs, is compliance with State, CERCLA/EPA, and NRC provisions to limit unacceptable radiation doses (TEDE to less than 25 mrem/yr and 15 mrem/yr, distinguishable from background; and less than 100 mrem/yr above background if institutional controls fail for on-site restricted use remedies) for the radionuclides found in the affected material (Stoller 2007b Section 7.1 and Table 8-1). The unexcavated soils above background but below Action Levels remaining in the upper terrace area would result in a dose of 42 mrem/yr to residents if radon mitigation systems were not in place and operational. Therefore, to comply with the remedial action objectives and ARARs, the School is placing an environmental covenant on this area requiring the use of radon mitigation in all residential structures built within the limits of this area of the Site. The radon mitigation systems will reduce doses to residents below 25 mrem/yr and 15 mrem/yr.

Additionally, the groundwater underneath the upper terrace soil is also being restricted with an environmental covenant as discussed in Section 9.4.

9.2 Clay Pits Soil Area

The Clay Pits investigation was unable to identify impacts resulting from CSMRI operations; therefore, no further action is required in this area. An environmental covenant is not necessary for CSMRI materials. Appendix A contains a letter from the CDPHE radiation unit agreeing that this area does not require further action under this project.

9.3 Flood Plain Soil Area

The excavation of soil from the Flood Plain Area east of the former pond was completed following guidelines established for the Main Site and presented in the work plan. Not all impacted soil above Action Levels, however, could be excavated from this area. During soil segregation activities, excavation of soil above Action Levels was limited by groundwater, surface water, and large old-growth trees. Additional soil excavation from this area was not practical. After discussions with the CDPHE radiation unit, it was agreed between the School and the CDPHE radiation unit that soil above Action Levels in this area would be left in place provided an environmental covenant was placed with the necessary restrictions to prevent unacceptable doses. The final condition of the Flood Plain Area, using laboratory data from all remaining non-excavated sample locations, indicates a mean Ra-226 concentration of 4.77 pCi/g, with a 95 percent upper confidence level of 5.5 pCi/g.

The soil remaining above Action Levels was left in place due to Site constraints and feasibility issues. Clean fill was placed into the excavated areas to re-establish drainage and prevent mosquito breeding sites. The fill soil was taken from uncontaminated piles located on the upper,

previously remediated terrace. This was to eliminate the safety concerns of leaving open shallow excavations filled with water and reduce the exposure potential of any recreational users. This portion of the Site will have a restrictive environmental covenant placed on it prohibiting residential structures. Residential structures with radon mitigation systems in this area could still result in doses greater than the remedial action objectives of 25 mrem/yr and 15 mrem/yr to residents, so no residential structures will be permitted in this area. Doses to industrial and commercial users without radon mitigation systems could still result in doses greater than the remedial action objectives of 25 mrem/yr and 15 mrem/yr. Radon mitigation systems, therefore, are necessary for commercial and industrial structures to be in compliance with the remedial action objectives for the Site.

The former pond area is included within the area covered by the environmental covenant placed on the Flood Plain Area. This is being done because the clean-up levels that were used by the EPA are greater than those used for the remainder of the Site. The following MicroShield modeling summary included the former pond area to determine appropriate restrictions on this area. This approach is protective of human health as demonstrated by modeling conducted using MicroShield as outlined below.

The dose to recreational users (bikers, walkers, sightseers) exposed to Ra-226 contamination at the lower terrace portion of the Site was evaluated using MicroShield 7.0 computer code (Grove Software, 2005). The lower terrace portion of the Site includes the Flood Plain Area and the former pond area.

The actual exposure potentials from this Site are below those calculated with MicroShield due to shielding from soil and vegetation as well as any improvements or covering on the path; distance from the contaminated points; and actual time spent in the area.

Construction workers building the path through the Flood Plain Area would also have the potential to be exposed to the residual activity in the soil. Using the same set of conservative assumptions each worker was evaluated as presented in Table 9-1.

Table 9-1
Doses to Construction Workers

| Scenario | Dose (mrem/yr) | | |
|-------------------------------------|----------------|----------|--------|
| | Internal | External | Total |
| Cat Operator constructing bike path | 0.0789 | 0.0275 | 0.0791 |
| Bathroom construction | | | |
| - Concrete Worker | 0.2490 | 0.0006 | 0.2500 |
| - Carpenter | 0.0684 | 0.0006 | .06900 |
| - Finisher (Siding and Roofing) | 0.0342 | 0.0003 | 0.0345 |
| - Plumber | 0.5870 | 0.0000 | 0.5870 |

Recreational users of a foot path would receive a radiological dose of 0.0113 mrem/yr., which is below the remedial action objectives of 25 mrem/yr and 15 mrem/yr.

The doses to recreational users of the former pond area (Table 9-2) (using the same assumptions) are well below the regulatory limits as well.

Table 9-2
Doses to Recreational Users from Ra-226 Remaining in the
Former Pond Area

| Soils Ra-226 Concentrations (pCi/g) | Soil Depth (inches) | Dose (mrem/yr) |
|--|---------------------|----------------|
| 5 | 6 | 0.00152 |
| 15 | 6-60 | 0.00785 |
| | TOTAL | 0.00937 |

The complete MicroShield evaluation is presented in Appendix N.

A materials management plan will be prepared for soil areas subject to an environmental covenant to cover contingencies that may arise during future soil-disturbing events (like construction), if any.

9.4 Groundwater

The levels of uranium in groundwater, which have not attained the Colorado groundwater Standard for uranium for some of the monitoring wells on the Site, are expected to continue to drop resulting from the excavation and off-site disposal of source materials. However, it is anticipated that legacy management of groundwater, including monitoring of the elevated concentrations above the Colorado groundwater Standard for uranium will be required. The groundwater will have an environmental covenant placed on it that prohibits use of the water. The groundwater environmental covenant will be applied to groundwater within the fenced area of the Site.

A two-year monitoring period is currently being conducted to confirm the effectiveness of the Selected Remedy and to review the Legacy Management Plan. The current groundwater monitoring program consisting of quarterly sampling and analysis will be continued until such a time as levels drop to either below the Colorado groundwater Standard or demonstrate a trend sufficient to demonstrate success of the remedy at addressing the uranium contamination in the groundwater.

10. Certification

I certify that the actions described in this document and the data presented are to the best of my knowledge accurate and complete. Further I certify that the site currently exists in the state described and the selected remedial alternative has been implemented.

Stephen R. Brinkman, P.G.
Stoller Project Manager

11. References

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Stoller 2006b. Flood Plain Characterization Work Plan, prepared for Colorado School of Mines, Golden, Colorado. Prepared by S.M. Stoller Corporation, Broomfield, Colorado, November 21.

Stoller 2006c. Groundwater Monitoring Well Installation Work Plan CSMRI Site, prepared for Colorado School of Mines, Golden, Colorado. Prepared by S.M. Stoller Corporation, Broomfield, Colorado, December 6.

Stoller 2007a. Clay Pits Area Remedial Site Investigation Report, Colorado School of Mines Research Institute Site, Golden, CO. Prepared for Colorado School of Mines, Golden, CO. Prepared by The S.M. Stoller Corporation, Broomfield, April.

Stoller 2007b. Revised Remedial Investigation/Feasibility Study and Proposed Plan, Revision Date: May 2007, Original RI/FS Date: January 21, 2004, prepared for Colorado School of Mines, Golden, CO.

Stoller 2007c. Draft Implementation Report, Groundwater Monitoring Well Installation, Colorado School of Mines Research Institute, Golden, Colorado. Prepared for Colorado School of Mines, Golden, Colorado. Prepared by The S.M. Stoller Corporation, Broomfield, CO, June.

Stoller 2007d, Record of Decision, Colorado School of Mines Research Institute Site, Golden, CO, Revision Date: July 9, 2007, Original ROD Date: March 31, 2004, prepared by S.M. Stoller Corporation, Broomfield, Colorado.

Stoller 2007e. Colorado School of Mines Research Institute Stockpiled Soil Disposal Work Plan, prepared for Colorado School of Mines, Golden, Colorado, August 3.

Appendix A

Letter from CDPHE Releasing Site from Radioactive Materials License

STATE OF COLORADO

Bill Ritter, Jr., Governor
James B. Martin, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.
Denver, Colorado 80246-1530
Phone (303) 692-2000
TDD Line (303) 691-7700
Located in Glendale, Colorado

Laboratory Services Division
8100 Lowry Blvd.
Denver, Colorado 80230-6928
(303) 692-3090

<http://www.cdphe.state.co.us>



SEP 21 2007

Colorado Department
of Public Health
and Environment

SEP 14 2007

Linn D. Havelick, CIH
Colorado School of Mines
Environmental Health and Safety
Golden, Colorado 80401-1887

RE: Clay Pits Area Remedial Site Investigation Report
Colorado School of Mines Research Institute – Creekside Facility
Radioactive Materials License Number 617-01

Dear Mr. Havelick:

A report entitled Clay Pits Area Remedial Site Investigation Report dated April 2007 (the Report) was received by the Colorado Department of Public Health and Environment (the Department) on July 28, 2007. The Report has been reviewed.

Based on the information presented it appears that you have characterized the Clay Pits disposal area as described in Colorado Radioactive Materials License No. 617-01. It does not appear that this area need be included in the current license. During the next License amendment, this area will be removed.

The characterization presented in the Report indicates that while a Radioactive Materials License may not be needed for this area, it is quite possible that any material dug up from the Clay Pits disposal area will qualify as Hazardous Waste and be subject to the restrictions and requirements of that designation.

If you have any technical questions or would like to set up a meeting, please call Edgar Ethington at (303) 692-3438, or me at (303) 692-3423.

Sincerely,

Steve Tarlton
Radiation Management Unit Leader
Compliance Program

CC Jerry Goad; AGO
Steve Brinkman; S.M. Stoller Corporation

Appendix B

Colorado School of Mines Research Institute Radioactive Materials License

STATE OF COLORADO

Bill Owens, Governor
Dennis E. Ellis, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.
Denver, Colorado 80246-1530
Phone (303) 692-2000
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Located in Glendale, Colorado

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8100 Lowry Blvd.
Denver, Colorado 80230-6928
(303) 692-3090

<http://www.cdphe.state.co.us>



DEC 19 2006

Colorado Department
of Public Health
and Environment

DEC 15 2006

Linn D. Havelick, CIH
Colorado School of Mines
Environmental Health and Safety
Golden, Colorado 80401-1887

RE: Radioactive Materials License Number 617-01 Amendment Number 7

Dear Mr. Havelick:

Enclosed is a signed copy of Radioactive Materials License Number 617-01 Amendment Number 7. It is effective immediately upon receipt.

If you have any technical questions or would like to set up a meeting, please call Edgar Ethington at (303) 692-3438, or me at (303) 692-3423.

Sincerely,

Steve Tarlton
Radiation Management Unit Leader
Compliance Program

CC Jerry Goad; AGO
Jefferson County Health Department

Enclosure (1)

State of Colorado
Department of Public Health and Environment

RADIOACTIVE MATERIALS LICENSE

Pursuant to the *Colorado Radiation Control Act*, Title 25, Article 11, *Colorado Revised Statutes*, and the State of Colorado *Rules and Regulations Pertaining to Radiation Control*, Part 3, and in reliance on statements and representations heretofore made by the licensee designated below; a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders now or hereafter in effect of the Colorado Department of Public Health and Environment and to any conditions specified below.

1. **Licensee:** Colorado School of Mines Research Institute
 2. **Address:** 1500 Illinois St., Golden, Colorado 80401-1887
 3. **License Number** Colo. 617-01, Amendment Number 07
 4. **Expiration date:** February 28, 2011
 5. **Reference Number:** **Fee Category:** 14.A
-

6. **Authorized Radioactive Material and Uses:**

- A. The licensee is authorized to possess, store, and transfer naturally occurring, source and byproduct radionuclides in soil, ore and process residues.
-

CONDITIONS

7. Radioactive material shall be stored at and contiguous to West 12th Street, Golden, Colorado, including the clay pits (described as a parcel of land in former Block 20, Mineral Land Company's Addition to the City of Golden, Colorado, Jefferson County, more particularly described as beginning at the intersection of 12th and Maples Streets of said City of Golden, then S54°33'55"W along the centerline of said 12th Street 696.06 feet to a point, thence S44°29'54"E 233.47 feet to the true point of beginning, then N60°08'35"E 10.0 feet to a point, thence S29°51'25"E 73.65 feet to a point, thence S60°08'35"W 20.0 feet to a point, thence N29°51'25"W 73.65 feet to a point, thence N60°08'35"E 10.0 feet to the true point of beginning, containing 0.034 acres more or less), pending decommissioning and disposal activities approved by the Department:
8. The licensee shall comply with the provisions of the State of Colorado *Rules and Regulations Pertaining to Radiation Control*: Part 3, "Licensing of Radioactive Material"; Part 4, "Standards for Protection Against Radiation"; and Part 10, "Notices, Instructions and Reports to Workers; Inspections."

State of Colorado
Department of Public Health and Environment

RADIOACTIVE MATERIALS LICENSE

9. Radioactive material shall be stored under the supervision of Linn Havelick.
10. The designated Radiation Safety Officer is Linn Havelick.
11. Radioactive material authorized by License Condition 6 of this license shall be stored in a manner that will preclude use by unauthorized personnel.
12. The licensee shall provide the Department, on or before May 1, 2007, a complete and Department-approved site characterization report, a final decommissioning plan based on the site-characterization report, and a schedule of decommissioning implementation. The plan shall include all information required pursuant to RH 3.16.4.3.1 through 3.16.4.3.6 of the State of Colorado *Rules and Regulations Pertaining to Radiation Control*, and shall explicitly detail how remediation and decommissioning will be performed and monitored.
13. The licensee shall maintain a Department-approved financial assurance arrangement in accordance with RH 3.9.5 of the State of Colorado *Rules and Regulation Pertaining to Radiation Control*. An enforceable financial instrument must be provided by which CDPHE shall access Colorado School of Mines account number 53410-9014-3200 and/or other financial assets necessary to complete decommissioning. This financial instrument shall be submitted to the Department within sixty days of issuance of this license, and provide surety in an amount not less than \$2,780,000.00.
14. The licensee shall not transfer possession or control of materials or products containing radioactive material as a contaminant except:
 - A. By transfer to an specifically licensed recipient pursuant to the requirements of RH 3.22.2; or
 - B. By transfer to an authorized recipient as provided by specific condition of this license.
15. The State of Colorado *Rules and Regulations Pertaining to Radiation Control* shall govern unless the licensee's statements, representations, and procedures contained in the application and correspondence are more restrictive than the Regulations. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Item 6 of this license in accordance with the statements, representations, and procedures, as approved in writing by the Division, contained in the license application dated February 24, 2006.

For The Colorado Department of Public Health and Environment

Date: 12/15/06 By: Shea T. Carter

Appendix C

Historical Groundwater Data

Table G-1
Historical Summary of Radioisotopes in Groundwater (Stoller)

| Sample Station | Sample Date | Ra-226 (pCi/l) | Ra-228 (pCi/l) | Th-228 (pCi/l) | Th-230 (pCi/l) | Th-232 (pCi/l) | U-234 (pCi/l) | U-235 (pCi/l) | U-238 (pCi/l) | Total U (µg/l) |
|----------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|
| CSMRI-1 | 2/25/05 | -0.11 | 0.81 | 0.007 | 0.07 | 0.01 | 0.77 | 0.043 | 0.53 | 1.61 |
| | 6/14/05 | 0.16 | 0.44 | 0.018 | -0.021 | 0.012 | 0.43 | 0.011 | 0.217 | 0.64 |
| | 9/7/05 | 0.1 | 0.63 | 0.068 | 0.167 | 0.114 | 0.85 | 0.053 | 0.43 | 1.3 |
| | 12/20/05 | -0.19 | 0.59 | -0.045 | 0.32 | 0.014 | 0.94 | 0.073 | 0.46 | 1.41 |
| | 3/15/06 | -0.15 | 0.58 | 0.025 | 0.032 | -0.004 | 1.76 | 0.11 | 0.92 | 2.8 |
| | 6/14/06 | 0.42 | 0.05 | 0.15 | -0.06 | 0.062 | 0.18 | 0.18 | 0.08 | 0.31 |
| | 9/13/06 | 0.25 | 0.34 | 0.11 | -0.079 | 0.027 | 0.45 | 0.051 | 0.25 | 0.77 |
| | 3/1/07 | 0.32 | 0.78 | 0.052 | -0.031 | 0.012 | NT | NT | NT | 1.2 |
| | 6/27/07 | 0.51 | 0.91 | 0.17 | 0.064 | -0.005 | NT | NT | NT | 0.88 |
| | 9/11/07 | -0.3 | 0.53 | -0.031 | 0.019 | 0.001 | NT | NT | NT | 0.72 |
| | 11/27/07 | -0.2 | 0.72 | 0.71 | 0.101 | 0.02 | NT | NT | NT | 1.2 |
| | 2/27/08 | 0.2 | 0.85 | 0.035 | 0.032 | 0.011 | NT | NT | NT | 1.5 |
| | 4/18/08 | -0.02 | 0.66 | -0.03 | -0.004 | 0.01 | NT | NT | NT | 1.9 |
| | 9/25/08 | 0.26 | 0.88 | NT | NT | NT | NT | NT | NT | 0.96 |
| | 12/3/08 | 0.32 | 1.39 | NT | NT | NT | NT | NT | NT | 1.5 |
| | 3/17/09 | 0.09 | 0.96 | NT | NT | NT | NT | NT | NT | 2 |
| CSMRI-1B | 3/8/07 | 0.13 | 1.19 | -0.03 | -0.09 | 0.02 | NT | NT | NT | 2.7 |
| | 6/26/07 | 0.09 | 0.3 | 0.001 | 0.002 | 0.012 | NT | NT | NT | 5 |
| | 9/11/07 | -0.13 | 0.65 | 0.019 | 0.012 | 0.001 | NT | NT | NT | 6.3 |
| | 11/27/07 | 0.11 | 1.16 | 0.004 | 0.06 | 0.016 | NT | NT | NT | 6.9 |
| | 2/28/08 | 0.32 | 0.61 | 0.01 | 0.058 | 0.033 | NT | NT | NT | 6.5 |
| | 4/18/08 | 0.03 | 0.72 | -0.004 | -0.046 | 0 | NT | NT | NT | 6 |
| | 9/24/08 | 0.05 | 0.3 | NT | NT | NT | NT | NT | NT | 4 |
| | 12/5/08 | 0.02 | 0.88 | NT | NT | NT | NT | NT | NT | 4.6 |
| | 3/18/09 | 0.2 | 1.15 | NT | NT | NT | NT | NT | NT | 8.1 |
| CSMRI-2 | 2/25/05 | 0.8 | 1.85 | 0.07 | -0.02 | 0.01 | 0.6 | 0.05 | 0.16 | 0.53 |
| | 6/14/05 | 1.47 | 3.0 | 0.14 | 0.003 | 0.026 | 0.68 | 0.025 | 0.299 | 0.89 |
| | 9/7/05 | 1.78 | 2.71 | 0.162 | 0.108 | 0.049 | 0.65 | 0.050 | 0.31 | 0.94 |
| | 12/20/05 | 1.35 | 1.62 | 0.108 | 0.285 | 0.024 | 0.83 | 0.002 | 0.35 | 1.06 |
| | 3/15/06 | 1.25 | 2.53 | 0.03 | 0.204 | 0.012 | 0.83 | 0.066 | 0.45 | 1.36 |
| | 6/14/06 | 0.99 | 1.79 | 0.25 | 0.22 | 0.049 | 0.69 | 0.04 | 0.25 | 0.76 |
| | 9/13/06 | 1.01 | 2.35 | 0.088 | -0.039 | -0.008 | 0.46 | 0.014 | 0.28 | 0.85 |
| | 3/8/07 | 0.76 | 2.15 | 0.022 | -0.01 | 0.011 | NT | NT | NT | 0.72 |
| | 6/28/07 | 1.4 | 3.2 | -0.075 | -0.01 | -0.007 | NT | NT | NT | 2 |
| | 9/11/07 | 0.78 | 3.2 | 0.016 | 0.101 | 0.014 | NT | NT | NT | 0.98 |
| | 11/27/07 | 0.45 | 2.05 | 0.037 | 0.035 | 0.006 | NT | NT | NT | 1 |
| | 2/28/08 | 1.37 | 2.26 | 0.043 | 0.085 | 0.044 | NT | NT | NT | 0.68 |
| | 4/17/08 | 1.08 | 1.89 | 0.041 | -0.021 | 0.008 | NT | NT | NT | 0.89 |
| | 9/24/08 | 0.97 | 1.41 | NT | NT | NT | NT | NT | NT | 0.69 |
| | 12/5/08 | 1.1 | 1.88 | NT | NT | NT | NT | NT | NT | 0.83 |
| | 3/18/09 | 2.37 | 2.68 | NT | NT | NT | NT | NT | NT | 0.77 |

Table G-1
Historical Summary of Radioisotopes in Groundwater (Stoller)

| Sample Station | Sample Date | Ra-226 (pCi/l) | Ra-228 (pCi/l) | Th-228 (pCi/l) | Th-230 (pCi/l) | Th-232 (pCi/l) | U-234 (pCi/l) | U-235 (pCi/l) | U-238 (pCi/l) | Total U (µg/l) |
|----------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|
| CSMRI-7B | 2/27/07 | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 6/26/07 | 0.65 | 0.22 | 0.036 | 0.054 | 0.027 | NT | NT | NT | 68 |
| | 9/10/07 | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/26/07 | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 2/26/08 | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4/15/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 9/24/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 12/3/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 3/16/09 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| CSMRI-8 | 3/8/07 | 0.7 | 1.06 | 0.072 | -0.031 | 0.016 | NT | NT | NT | 1,100 |
| | 6/27/07 | 0.8 | 0.4 | 0.039 | 0.046 | 0.008 | NT | NT | NT | 810 |
| | 9/10/07 | 1.31 | 0.9 | 0.031 | 0.05 | 0.009 | NT | NT | NT | 630 |
| | 11/27/07 | 1.27 | 1.2 | -0.02 | 0.074 | -0.003 | NT | NT | NT | 1,300 |
| | 2/27/08 | 1.19 | 1.38 | 0.089 | 0.1 | 0.043 | NT | NT | NT | 1,200 |
| | | | | | | | | | | |
| | 4/17/08 | 0.39 | 0.71 | -0.015 | -0.053 | 0.009 | NT | NT | NT | 770 |
| | 9/25/08 | 1.5 | 1.02 | NT | NT | NT | NT | NT | NT | 890 |
| | 12/5/08 | 1.55 | 1.44 | NT | NT | NT | NT | NT | NT | 1,900 |
| | 3/18/09 | 0.31 | 0.69 | NT | NT | NT | NT | NT | NT | 980 |
| | | | | | | | | | | |
| CSMRI-9 | 2/27/07 | 0.12 | 0.53 | -0.017 | 0.04 | 0.027 | NT | NT | NT | 7.9 |
| | 6/26/07 | 0.22 | 0.37 | 0.018 | 0.004 | -0.015 | NT | NT | NT | 32 |
| | 9/10/07 | 0.5 | 1.01 | 0.04 | -0.043 | 0.012 | NT | NT | NT | 35 |
| | 11/26/07 | 0.25 | 0.27 | 0.023 | 0.003 | 0.003 | NT | NT | NT | 28 |
| | 2/27/08 | 0.11 | 0.24 | 0.047 | 0.037 | 0.041 | NT | NT | NT | 24 |
| | 4/15/08 | 0.27 | 0.65 | -0.004 | 0.015 | 0.022 | NT | NT | NT | 22 |
| | 9/24/08 | 0.11 | 0.48 | NT | NT | NT | NT | NT | NT | 28 |
| | 12/5/08 | 0.13 | 0.65 | NT | NT | NT | NT | NT | NT | 26 |
| | 3/16/09 | 0.17 | 0.45 | NT | NT | NT | NT | NT | NT | 34 |
| CSMRI-10 | 3/1/07 | 0.19 | 0.63 | 0.014 | -0.004 | 0.018 | NT | NT | NT | 7.8 |
| | 6/26/07 | 0.26 | 0.43 | -0.008 | 0.03 | -0.005 | NT | NT | NT | 8.8 |
| | 9/10/07 | -0.04 | 0.48 | 0.103 | 0.05 | 0.005 | NT | NT | NT | 9.9 |
| | 11/26/07 | -0.05 | 0.57 | 0.068 | 0.141 | 0.031 | NT | NT | NT | 10 |
| | 2/26/08 | 0.12 | 0.44 | 0.094 | 0.011 | 0.019 | NT | NT | NT | 9.2 |
| | 4/15/08 | 0.03 | 0.56 | -0.006 | -0.05 | 0.005 | NT | NT | NT | 8.7 |
| | 9/24/08 | 0.21 | 0.48 | NT | NT | NT | NT | NT | NT | 11 |
| | 12/4/08 | 0.11 | 0.92 | NT | NT | NT | NT | NT | NT | 19 |
| | 3/16/09 | 0.15 | 1.01 | NT | NT | NT | NT | NT | NT | 16 |
| CSMRI-11 | 3/1/07 | 0.16 | 0.46 | 0.051 | 0.085 | 0.007 | NT | NT | NT | 4.8 |
| | 6/26/07 | 0.37 | 0.43 | 0.084 | 0 | 0.008 | NT | NT | NT | 8.4 |
| | 9/10/07 | -0.26 | 0.52 | 0.012 | 0.006 | 0.016 | NT | NT | NT | 10 |
| | 11/26/07 | 0.16 | 0.87 | 0.089 | 0.099 | -0.012 | NT | NT | NT | 11 |
| | 2/26/08 | 0.28 | -0.03 | 0.044 | 0.044 | 0.074 | NT | NT | NT | 8.7 |

Table G-1
Historical Summary of Radioisotopes in Groundwater (Stoller)

| Sample Station | Sample Date | Ra-226 (pCi/l) | Ra-228 (pCi/l) | Th-228 (pCi/l) | Th-230 (pCi/l) | Th-232 (pCi/l) | U-234 (pCi/l) | U-235 (pCi/l) | U-238 (pCi/l) | Total U (µg/l) |
|----------------|---------------|-------------------|-------------------|-------------------|------------------------|-------------------|------------------|------------------|------------------|-------------------|
| | 4/15/08 | 0.35 | 0.75 | -0.032 | 0.004 | 0.016 | NT | NT | NT | 7.6 |
| CSMRI-11B | 12/3/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 3/16/09 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| MCL* | | Total Ra = 5 | | NE | Th 230 + Th 232 = 60** | | NE | NE | NE | 30 |

*Maximum Contaminant Level – National Primary Drinking Water Regulations

**5 CCR 1002-41 Reg 41 – Colorado Groundwater Standards

pCi/l - picocuries per liter

NE – Not Established

NT – not tested

µg/l – micrograms per liter

Table G-2
Historical Summary of Metals in Groundwater (Stoller)
(All results in milligrams per liter)

| Sample Station | Sample Date | Ag | As | Ba | Ca | Cd | Cr | Hg | K | Mg | Mo | Na | Pb | Se | V | Zn |
|----------------|-------------|----|------------|-----------|-----|-------------|-------------|---------------|-----|-----|------------|-----|----|------------|-------------|------------|
| CSMRI-1 | 2/25/05 | ND | ND | ND | 28 | ND | ND | ND | 2.8 | 9.4 | ND | 29 | ND | ND | ND | 0.032 |
| | 6/14/05 | ND | ND | ND | 17 | ND | ND | ND | 2.3 | 5.1 | ND | 16 | ND | ND | ND | 0.032 |
| | 9/7/05 | ND | ND | 0.055 (B) | 21 | ND | ND | ND | 2.9 | 6.3 | 0.0021 (B) | 25 | ND | 0.0041 (B) | ND | .034 |
| | 12/20/05 | ND | ND | 0.067 (B) | 32 | ND | ND | 0.000034 (B) | 2.9 | 10 | ND | 26 | ND | ND | ND | 0.052 |
| | 3/15/06 | ND | ND | 0.064 (B) | 33 | ND | ND | 0.00002 (B) | 2.6 | 10 | 0.0013 (B) | 24 | ND | ND | ND | 0.049 |
| | 6/14/06 | ND | ND | 0.031 (B) | 10 | ND | ND | ND | 1.9 | 3 | 0.0051 (B) | 9.2 | ND | 0.0035 (B) | ND | 0.015 (B) |
| | 9/13/06 | ND | ND | 0.061 (B) | 20 | ND | 0.041 (B) | ND | 2.7 | 6 | 0.0038 (B) | 14 | ND | ND | ND | 0.03 |
| | 3/1/07 | ND | ND | 0.081 (B) | 39 | 0.00045 (B) | 0.00063 (B) | 0.000017 (B) | 3 | 12 | 0.0059 (B) | 26 | ND | 0.0066 | ND | 0.048 |
| | 6/27/07 | ND | ND | 0.063 (B) | 23 | ND | ND | 0.0000073 (B) | 2.4 | 9 | ND | 21 | ND | ND | ND | 0.017 (B) |
| | 9/11/07 | ND | ND | 0.065 (B) | 23 | ND | 0.00061 (B) | 0.000011 (B) | 2.5 | 7.2 | 0.002 (B) | 14 | ND | ND | ND | 0.038 |
| | 11/27/07 | ND | ND | 0.075 (B) | 31 | ND | ND | 0.000029 (B) | 2.5 | 9.7 | 0.0014 (B) | 18 | ND | ND | ND | 0.049 |
| | 2/27/08 | ND | ND | 0.08 (B) | 36 | ND | ND | ND | 2.5 | 12 | 0.0013 (B) | 22 | ND | ND | ND | 0.048 |
| | 4/18/08 | ND | ND | 0.081 (B) | 36 | ND | ND | ND | 2.7 | 11 | 0.0015 (B) | 22 | ND | ND | ND | 0.057 |
| | 9/25/08 | NT | NT | NT | 30 | NT | NT | NT | 3 | 9 | NT | 18 | NT | NT | NT | NT |
| | 12/3/08 | NT | NT | NT | 39 | NT | NT | NT | 3.5 | 12 | NT | 25 | NT | NT | NT | NT |
| | 3/17/09 | NT | NT | NT | 46 | NT | NT | NT | 3 | 14 | NT | 27 | NT | NT | NT | NT |
| CSMRI-1B | 3/1/07 | ND | ND | 0.098 (B) | 130 | ND | 0.00014 (B) | 0.000017 (B) | 52 | 47 | 0.17 | 91 | ND | 0.0058 | 0.0009 (B) | ND |
| | 6/26/07 | ND | ND | 0.071 (B) | 83 | ND | ND | 0.0000072 (B) | 10 | 38 | 0.029 | 35 | ND | ND | ND | ND |
| | 9/11/07 | ND | ND | 0.1 | 93 | ND | ND | 0.0000094 (B) | 8.4 | 43 | 0.031 | 36 | ND | ND | ND | 0.0012 (B) |
| | 11/27/07 | ND | ND | 0.11 | 100 | ND | ND | 0.000029 (B) | 9.4 | 46 | 0.024 | 42 | ND | ND | 0.00073 (B) | 0.0039 (B) |
| | 2/28/08 | ND | ND | 0.11 | 97 | ND | 0.0015 (B) | ND | 9.3 | 45 | 0.029 | 41 | ND | 0.0039 (B) | ND | 0.0033 (B) |
| | 4/18/08 | ND | ND | 0.11 | 93 | ND | ND | ND | 9.1 | 43 | 0.027 | 39 | ND | ND | 0.00065 (B) | ND |
| | 9/24/08 | NT | NT | NT | 92 | NT | | NT | 7.3 | 39 | NT | 38 | NT | NT | NT | NT |
| | 12/5/08 | NT | NT | NT | 95 | NT | NT | NT | 7.6 | 39 | NT | 40 | NT | NT | NT | NT |
| CSMRI-2 | 3/18/09 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 2/25/05 | ND | ND | 0.11 | 72 | ND | ND | ND | 7.1 | 32 | ND | 19 | ND | ND | ND | 0.02 |
| | 6/14/05 | ND | ND | 0.1 | 76 | ND | ND | ND | 6.3 | 32 | ND | 18 | ND | ND | ND | ND |
| | 9/7/05 | ND | ND | 0.11 | 81 | ND | ND | ND | 7.1 | 35 | ND | 19 | ND | ND | ND | 0.011 (B) |
| | 12/20/05 | ND | ND | 0.098 (B) | 76 | ND | ND | 0.000031 (B) | 6.7 | 33 | ND | 18 | ND | ND | ND | 0.0043 (B) |
| | 3/15/06 | ND | ND | 0.09 (B) | 74 | ND | ND | 0.000023 (B) | 6.1 | 31 | ND | 17 | ND | ND | ND | 0.0059 (B) |
| | 6/14/06 | ND | ND | 0.093 (B) | 70 | ND | ND | ND | 6.3 | 31 | 0.0048 (B) | 17 | ND | 0.0031 (B) | ND | 0.0092 (B) |
| | 9/13/06 | ND | ND | 0.11 | 81 | ND | ND | ND | 6.7 | 35 | 0.0014 (B) | 19 | ND | ND | ND | 0.0092 (B) |
| | 3/8/07 | ND | 0.0058 (B) | 0.12 | 88 | ND | ND | ND | 8.3 | 39 | ND | 21 | ND | 0.03 | ND | 0.0011 (B) |
| | 6/28/07 | ND | ND | 0.11 | 97 | ND | ND | 0.0000056 (B) | 7.9 | 49 | ND | 26 | ND | ND | 0.002 (B) | 0.0041 (B) |
| | 9/11/07 | ND | ND | 0.1 | 91 | ND | ND | 0.000016 (B) | 7.2 | 43 | ND | 23 | ND | ND | 0.00086 (B) | 0.0082 (B) |
| | 11/27/07 | ND | ND | 0.093 (B) | 83 | ND | ND | 0.000023 (B) | 7 | 38 | ND | 22 | ND | ND | 0.001 (B) | 0.0075 (B) |
| | 2/28/08 | ND | ND | 0.094 (B) | 81 | ND | 0.0018 (B) | ND | 6.6 | 38 | ND | 21 | ND | ND | 0.0017 (B) | 0.0073 (B) |
| | 4/17/08 | ND | ND | 0.092 (B) | 78 | ND | ND | ND | 6.6 | 36 | ND | 20 | ND | ND | 0.0014 (B) | 0.0055 (B) |
| | 9/24/08 | NT | NT | NT | 74 | NT | NT | NT | 6.4 | 34 | NT | 19 | NT | NT | NT | NT |
| | 12/5/08 | NT | NT | NT | 75 | NT | NT | NT | 6.6 | 33 | NT | 20 | NT | NT | NT | NT |
| | 3/18/09 | NT | NT | NT | 76 | NT | NT | NT | 6.4 | 34 | NT | 19 | NT | NT | NT | NT |

Table G-2
Historical Summary of Metals in Groundwater (Stoller)
(All results in milligrams per liter)

| Sample Station | Sample Date | Ag | As | Ba | Ca | Cd | Cr | Hg | K | Mg | Mo | Na | Pb | Se | V | Zn |
|----------------|----------------|-------------|------------|-----------|-----|-------------|-------------|---------------|-----|----|------------|-----|------------|------------|-------------|------------|
| | 6/26/07 | ND | ND | 0.056 (B) | 70 | ND | ND | 0.000006 (B) | 5.5 | 37 | 0.024 | 53 | ND | ND | 0.00061 (B) | 0.0041 (B) |
| | 9/10/07 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/26/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 2/27/08 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 4/15/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 9/24/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 12/3/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 3/16/09 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| CSMRI-8 | 3/8/07 | ND | 0.0053 (B) | 0.068 (B) | 230 | ND | ND | ND | 23 | 72 | 0.094 | 74 | ND | 0.034 | ND | 0.0024 (B) |
| | 6/27/07 | ND | ND | 0.053 (B) | 190 | ND | ND | 0.0000099 (B) | 19 | 55 | 0.043 | 52 | ND | ND | ND | 0.069 |
| | 9/10/07 | ND | 0.0069 (B) | 0.076 (B) | 160 | ND | 0.00074 (B) | 0.000027 (B) | 15 | 49 | 0.034 | 54 | 0.0018 (B) | ND | ND | 0.025 |
| | 11/27/07 | ND | ND | 0.091 (B) | 230 | ND | ND | 0.000024 (B) | 15 | 67 | 0.026 | 70 | ND | 0.0046 (B) | 0.001 (B) | 0.011 (B) |
| | 2/27/08 | ND | 0.036 (B) | 0.07 (B) | 270 | ND | ND | ND | 15 | 82 | 0.019 | 100 | ND | ND | ND | 0.038 |
| | 4/17/08 | ND | ND | 0.046 (B) | 210 | ND | 0.0011 (B) | ND | 13 | 63 | 0.016 | 73 | ND | ND | ND | 0.032 |
| | 9/25/08 | NT | NT | NT | 230 | NT | NT | NT | 17 | 68 | NT | 70 | NT | NT | NT | NT |
| | 12/5/08 | NT | NT | NT | 400 | NT | NT | NT | 18 | 95 | NT | 84 | NT | NT | NT | NT |
| | 3/18/09 | NT | NT | NT | 250 | NT | NT | NT | 13 | 74 | NT | 97 | NT | NT | NT | NT |
| | | | | | | | | | | | | | | | | |
| CSMRI-9 | 2/27/07 | ND | ND | 0.08 (B) | 69 | ND | 0.0011 (B) | 0.000024 (B) | 12 | 31 | 0.045 | 33 | ND | 0.011 | 0.001 (B) | ND |
| | 6/26/07 | ND | ND | 0.049 (B) | 160 | ND | ND | 0.000002 (B) | 8.5 | 77 | 0.0028 | 150 | ND | 0.0049 (B) | 0.00096 (B) | 0.0096 (B) |
| | 9/10/07 | ND | 0.004 (B) | 0.059 (B) | 100 | ND | 0.0009 (B) | 0.000016 (B) | 6 | 51 | 0.0037 (B) | 49 | ND | ND | 0.00071 (B) | 0.0097 (B) |
| | 11/26/07 | ND | ND | 0.078 (B) | 110 | 0.00051 (B) | 0.0011 (B) | 0.000031 (B) | 5.9 | 56 | 0.0023 (B) | 52 | ND | 0.0054 | 0.0012 (B) | 0.015 (B) |
| | 2/27/08 | ND | ND | 0.079 (B) | 110 | ND | ND | ND | 5.4 | 56 | ND | 49 | ND | 0.0033 (B) | ND | 0.011 |
| | 4/15/08 | ND | ND | 0.077 (B) | 100 | ND | ND | 0.000013 (B) | 5 | 52 | 0.0017 (B) | 46 | ND | ND | 0.00077 (B) | 0.0079 (B) |
| | 9/24/08 | NT | NT | NT | 110 | NT | NT | NT | 5.8 | 54 | NT | 50 | NT | NT | NT | NT |
| | 12/5/08 | NT | NT | NT | 100 | NT | NT | NT | 5.3 | 48 | NT | 46 | NT | NT | NT | NT |
| | 3/16/09 | NT | NT | NT | 100 | NT | NT | NT | 4.7 | 49 | NT | 45 | NT | NT | NT | NT |
| CSMRI-10 | 3/1/07 | 0.00051 (B) | ND | 0.064 (B) | 79 | ND | 0.0013 (B) | 0.000024 (B) | 7.3 | 33 | 0.01 | 36 | ND | 0.01 | 0.0011 (B) | ND |
| | 6/26/07 | ND | ND | 0.079 (B) | 100 | ND | ND | 0.0000063 (B) | 4.7 | 44 | ND | 37 | ND | 0.0044 (B) | 0.00055 (B) | ND |
| | 9/10/07 | ND | 0.0039 (B) | 0.071 (B) | 89 | ND | 0.0012 (B) | 0.00002 (B) | 4.2 | 38 | 0.0014 (B) | 36 | ND | ND | 0.00099 (B) | 0.0042 (B) |
| | 11/26/07 | ND | ND | 0.085 (B) | 110 | ND | ND | 0.000026 (B) | 4.7 | 43 | ND | 41 | ND | ND | ND | ND |
| | 2/26/08 | ND | ND | 0.09 (B) | 110 | ND | ND | ND | 4.6 | 46 | ND | 41 | ND | ND | ND | 0.0052 |
| | 4/15/08 | ND | ND | 0.088 (B) | 100 | ND | 0.0044 (B) | ND | 4.5 | 44 | ND | 40 | ND | ND | 0.00059 (B) | 0.0018 (B) |
| | 9/24/08 | NT | NT | NT | 100 | NT | NT | NT | 4.6 | 42 | NT | 41 | NT | NT | NT | NT |
| | 12/4/08 | NT | NT | NT | 100 | NT | NT | NT | 4.8 | 41 | NT | 43 | NT | NT | NT | NT |
| | 3/16/09 | NT | NT | NT | 110 | NT | NT | NT | 4.5 | 43 | NT | 43 | NT | NT | NT | NT |
| CSMRI-11 | 2/27/07 | ND | ND | 0.073 (B) | 75 | ND | 0.00013 (B) | 0.000023 (B) | 9.7 | 29 | 0.033 | 33 | ND | 0.013 | 0.00073 (B) | 0.0023 (B) |
| | 6/26/07 | ND | ND | 0.096 (B) | 110 | ND | 0.0012 (B) | 0.0000071 (B) | 5.4 | 44 | 0.0014 (B) | 39 | ND | 0.0064 | 0.00059 (B) | ND |
| | 9/10/07 | ND | 0.004 (B) | 0.071 (B) | 96 | ND | 0.00083 (B) | 0.000016 (B) | 4.5 | 39 | 0.0016 (B) | 44 | ND | ND | 0.00078(B) | 0.0033 (B) |
| | 11/26/07 | ND | ND | 0.11 | 110 | ND | ND | 0.000028 (B) | 4.9 | 44 | 0.0012 (B) | 40 | ND | ND | 0.0013 (B) | ND |
| | 2/26/08 | ND | ND | 0.11 | 110 | ND | ND | ND | 4.6 | 42 | ND | 44 | ND | ND | ND | 0.0048 |

Table G-2
Historical Summary of Metals in Groundwater (Stoller)
(All results in milligrams per liter)

| Sample Station | Sample Date | Ag | As | Ba | Ca | Cd | Cr | Hg | K | Mg | Mo | Na | Pb | Se | V | Zn |
|------------------|---------------|------|------|------|-----|-------|------|--------|-----|----|------|----|-------|-------|------|------|
| | 4/15/08 | ND | ND | 0.12 | 100 | ND | ND | ND | 4.7 | 41 | ND | 44 | ND | ND | ND | ND |
| CSMRI-11B | 12/3/08 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 3/16/09 (DRY) | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| Detection Limits | | 0.01 | 0.01 | 0.1 | 1 | 0.005 | 0.01 | 0.0002 | 1 | 1 | 0.01 | 1 | 0.003 | 0.005 | 0.01 | 0.02 |
| MCL* | | NE | 0.01 | 2 | NE | 0.005 | 0.1 | 0.002 | NE | NE | NE | NE | 0.015 | 0.05 | NE | NE |

*Maximum Contaminant Level – National Primary Drinking Water Regulations
ND – non detect
NE – not established
NT – not tested
(B) – Detected above Instrument Detection Level but below Reported Detection Level

Table G-3
Historical Summary of Radioisotopes in Surface Water (Stoller)

| Sample Station | Sample Date | Ra-226 (pCi/l) | Ra-228 (pCi/l) | Th-228 (pCi/l) | Th-230 (pCi/l) | Th-232 (pCi/l) | U-234 (pCi/l) | U-235 (pCi/l) | U-238 (pCi/l) | Total U (µg/l) |
|----------------|-------------|-------------------|-------------------|-------------------|------------------------|-------------------|------------------|------------------|------------------|-------------------|
| SW-1 | 2/25/05 | 0 | 0.58 | 0.018 | -0.026 | -0.001 | 0.89 | 0.083 | 0.65 | 1.97 |
| | 6/14/05 | 0.14 | 0.05 | 0.05 | -0.025 | 0.016 | 0.246 | 0.021 | 0.251 | 0.75 |
| | 9/7/05 | 0.18 | 0.42 | 0.041 | 0.25 | 0.102 | 0.35 | 0.031 | 0.35 | 1.04 |
| | 12/20/05 | -0.31 | 0.47 | 0.028 | 0.197 | -0.005 | 0.64 | 0.041 | 0.7 | 2.11 |
| | 3/15/06 | -0.16 | 0.35 | 0.059 | 0.125 | 0.005 | 0.6 | 0.029 | 0.53 | 1.59 |
| | 6/14/06 | 0.13 | 0.45 | 0.16 | 0.53 | 0.062 | 0.11 | 0.08 | 0.19 | 0.61 |
| | 9/13/06 | -0.03 | 0.25 | -0.019 | -0.035 | 0.01 | 0.37 | -0.005 | 0.34 | 1 |
| | 3/1/07 | -0.1 | 0.25 | -0.038 | 0.15 | 0.026 | NT | NT | NT | 1.7 |
| | 6/27/07 | 0.13 | 0.77 | 0.006 | 0.016 | 0.014 | NT | NT | NT | 0.6 |
| | 9/11/07 | 0.15 | 0.74 | 0.063 | 0.088 | 0.012 | NT | NT | NT | 0.94 |
| | 11/27/07 | 0.2 | 0.24 | 0.026 | 0.049 | 0.025 | NT | NT | NT | 1.8 |
| | 2/27/08 | 0.1 | 0.48 | 0.014 | 0.002 | 0.024 | NT | NT | NT | 2 |
| | 4/18/08 | 0.06 | -0.07 | -0.023 | -0.026 | 0.012 | NT | NT | NT | 1.9 |
| | 9/25/08 | 0.18 | -0.01 | NT | NT | NT | NT | NT | NT | 1.1 |
| | 12/3/08 | -0.06 | 0.34 | NT | NT | NT | NT | NT | NT | 1.6 |
| | 3/16/09 | 0.14 | 0.73 | NT | NT | NT | NT | NT | NT | 1.9 |
| SW-2 | 2/25/05 | 0.45 | 0.06 | 0.011 | -0.016 | 0.033 | 0.8 | 0.066 | 0.42 | 1.29 |
| | 6/14/05 | 0.04 | 0.29 | 0.071 | -0.028 | 0.007 | 0.259 | 0.032 | 0.23 | 0.69 |
| | 9/7/05 | -0.08 | 0.24 | -0.013 | 0.107 | 0.051 | 0.54 | 0.014 | 0.54 | 1.62 |
| | 12/20/05 | 0.09 | 0.07 | -0.003 | 0.126 | 0 | 0.71 | 0.067 | 0.49 | 1.5 |
| | 3/15/06 | -0.04 | -0.15 | 0.009 | 0.184 | 0.01 | 0.79 | 0.004 | 0.51 | 1.52 |
| | 6/14/06 | 0.03 | 0.04 | 0.172 | 0.24 | 0.1 | 0.39 | 0 | 0.48 | 1.44 |
| | 9/13/06 | 0.11 | 0.35 | 0.009 | -0.03 | 0.01 | 0.43 | -0.006 | 0.3 | 0.89 |
| | 3/8/07 | 0.12 | 0.73 | 0.047 | -0.055 | 0 | NT | NT | NT | 1.7 |
| | 6/28/07 | 0.02 | 0.78 | 0.028 | 0.014 | 0 | NT | NT | NT | 0.57 |
| | 9/11/07 | 0.1 | 0.27 | 0.066 | 0.068 | 0.002 | NT | NT | NT | 0.97 |
| | 11/26/07 | 0.11 | 0.36 | 0.007 | 0 | 0.012 | NT | NT | NT | 1.7 |
| | 2/26/08 | 0.1 | 0 | -0.01 | 0.113 | 0.011 | NT | NT | NT | 2 |
| | 4/18/08 | 0.13 | 0.58 | 0.015 | 0.24 | 0.024 | NT | NT | NT | 1.8 |
| | 9/24/08 | -0.16 | -0.02 | NT | NT | NT | NT | NT | NT | 0.99 |
| | 12/3/08 | 0.1 | 0.46 | NT | NT | NT | NT | NT | NT | 1.5 |
| | 3/16/09 | 0.2 | 0.29 | NT | NT | NT | NT | NT | NT | 1.9 |
| MCL* | | Total Ra = 5 | | NE | Th 230 + Th 232 = 60** | | NE | NE | NE | 30 |

*Maximum Contaminant Level – National Primary Drinking Water Regulations

**5 CCR 1002-31 Reg 31 – Colorado Surface Water Standards

pCi/l - picoCuries per liter

µg/l -- micrograms per liter

Table G-4
Historical Summary of Metals in Surface Water (Stoller)
(All results in milligrams per liter)

| Sample Station | Sample Date | Ag | As | Ba | Ca | Cd | Cr | Hg | K | Mg | Mo | Na | Pb | Se | V | Zn |
|------------------|-------------|------------|------------|-----------|-----|-------------|-------------|---------------|----------|-----|------------|-----|-------|------------|-------------|-------|
| SW-1 | 2/25/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.2 |
| | 6/14/05 | ND | ND | ND | 11 | ND | ND | ND | 1.1 | 2.8 | ND | 5.2 | ND | ND | ND | 0.09 |
| | 9/7/05 | ND | 0.0037 (B) | 0.029 (B) | 20 | ND | ND | ND | 2.2 | 4.4 | 0.0044 (B) | 8.5 | ND | 0.0045 (B) | ND | 0.063 |
| | 12/20/05 | ND | ND | 0.042 (B) | 35 | 0.00057 (B) | ND | 0.000034 (B) | 3.7 | 7.6 | 0.004 (B) | 19 | ND | ND | ND | 0.22 |
| | 3/15/06 | ND | ND | 0.04 (B) | 37 | 0.00084 (B) | 0.00047 (B) | 0.000024 (B) | 3.7 | 8.5 | 0.0048 (B) | 23 | ND | ND | ND | 0.19 |
| | 6/14/06 | 0.0012 (B) | 0.0032 (B) | 0.011 (B) | 8.2 | ND | ND | ND | 1 | 1.9 | 0.0042 (B) | 3.1 | ND | ND | 0.00067 (B) | 0.029 |
| | 9/13/06 | ND | ND | 0.03 (B) | 21 | ND | ND | ND | 2.1 | 4.4 | 0.0049 (B) | 8.6 | ND | ND | ND | 0.053 |
| | 3/1/07 | ND | ND | 0.049 (B) | 44 | 0.0011 (B) | 0.00092 (B) | 0.000023 (B) | 4.3 | 11 | 0.0046 (B) | 26 | ND | ND | ND | 0.22 |
| | 6/27/07 | ND | ND | 0.018 (B) | 10 | ND | ND | 0.0000068 (B) | 0.93 (B) | 2.5 | 0.0017 (B) | 3.2 | ND | ND | ND | 0.067 |
| | 9/11/07 | ND | ND | 0.032 (B) | 21 | ND | ND | 0.000019 | 1.7 | 5 | 0.0029 (B) | 7.4 | ND | ND | ND | 0.078 |
| | 11/27/07 | ND | ND | 0.042 (B) | 33 | 0.00076 (B) | ND | 0.00027 (B) | 2.8 | 8.2 | 0.0032 (B) | 15 | ND | ND | ND | 0.18 |
| | 2/27/08 | ND | ND | 0.042 (B) | 36 | ND | ND | ND | 3.3 | 9.6 | 0.0022 (B) | 19 | ND | ND | ND | 0.15 |
| | 4/18/08 | ND | ND | 0.044 (B) | 35 | 0.00044 (B) | ND | ND | 3.4 | 9 | 0.0034 (B) | 23 | ND | ND | ND | 0.13 |
| | 9/25/08 | NT | NT | NT | 23 | NT | NT | NT | 1.9 | 5.1 | NT | 9 | NT | NT | NT | NT |
| SW-2 | 12/3/08 | NT | NT | NT | 32 | NT | NT | NT | 3 | 7.1 | NT | 15 | NT | NT | NT | NT |
| | 3/16/09 | NT | NT | NT | 35 | NT | NT | NT | 3.1 | 8.9 | NT | 17 | NT | NT | NT | NT |
| | 2/25/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.17 |
| | 6/14/05 | ND | ND | ND | 11 | ND | ND | ND | 1.1 | 2.8 | ND | 4.8 | ND | ND | ND | 0.085 |
| | 9/7/05 | ND | ND | 0.028 (B) | 20 | ND | ND | ND | 2.1 | 4.4 | 0.0037 (B) | 8.7 | ND | 0.0037 (B) | ND | 0.051 |
| | 12/20/05 | ND | ND | 0.042 (B) | 35 | 0.00043 (B) | ND | 0.000034 (B) | 3.8 | 8 | 0.0038 (B) | 19 | ND | ND | ND | 0.21 |
| | 3/15/06 | ND | ND | 0.042 (B) | 39 | 0.00053 (B) | 0.00055 (B) | 0.000022 (B) | 3.8 | 8.9 | 0.0046 (B) | 25 | ND | ND | 0.00053 (B) | 0.2 |
| | 6/14/06 | ND | 0.0022 (B) | 0.011 (B) | 8.4 | ND | ND | ND | 1 | 1.9 | 0.0045 (B) | 3 | ND | ND | ND | 0.031 |
| | 9/13/06 | ND | ND | 0.03 (B) | 21 | ND | ND | ND | 2.1 | 4.4 | 0.0048 (B) | 8.5 | ND | ND | ND | 0.04 |
| | 3/8/07 | ND | 0.0053 (B) | 0.049 (B) | 39 | 0.00064 (B) | ND | ND | 4.2 | 9.8 | 0.0014 (B) | 22 | ND | ND | ND | 0.17 |
| | 6/28/07 | ND | ND | 0.019 (B) | 10 | ND | ND | 0.0000056 (B) | 0.93 (B) | 2.6 | ND | 3.3 | ND | ND | ND | 0.075 |
| | 9/11/07 | ND | ND | 0.033 (B) | 21 | ND | ND | 0.00001 | 1.7 | 5.1 | 0.0035 (B) | 7.5 | ND | ND | ND | 0.084 |
| | 11/26/07 | ND | ND | 0.044 (B) | 35 | 0.0005 (B) | ND | 0.00027 (B) | 2.9 | 8.6 | 0.0027 (B) | 15 | ND | ND | ND | 0.19 |
| | 2/26/08 | ND | ND | 0.051 | 35 | 0.0005 (B) | ND | ND | 3.1 | 9.2 | 0.0023 (B) | 21 | ND | ND | ND | 0.15 |
| | 4/18/08 | ND | ND | 0.045 (B) | 35 | 0.0005 (B) | ND | ND | 3.4 | 9.1 | 0.0031 (B) | 23 | ND | ND | ND | 0.14 |
| | 9/24/08 | NT | NT | NT | 23 | NT | NT | NT | 1.9 | 5.1 | NT | 9 | NT | NT | NT | NT |
| | 12/3/08 | NT | NT | NT | 31 | NT | NT | NT | 3 | 7.5 | NT | 15 | NT | NT | NT | NT |
| | 3/16/09 | NT | NT | NT | 37 | NT | NT | NT | 3.5 | 9.7 | NT | 19 | NT | NT | NT | NT |
| Detection Limits | | 0.01 | 0.01 | 0.1 | 1 | 0.005 | 0.01 | 0.0002 | 1 | 1 | 0.01 | 1 | 0.003 | 0.005 | 0.01 | 0.02 |
| MCL* | | 0.01 | 0.01 | 2 | NE | 0.005 | 0.1 | 0.002 | NE | NE | NE | NE | 0.015 | 0.05 | NE | NE |

*Maximum Contaminant Level – National Primary Drinking Water Regulations

ND – Non Detect

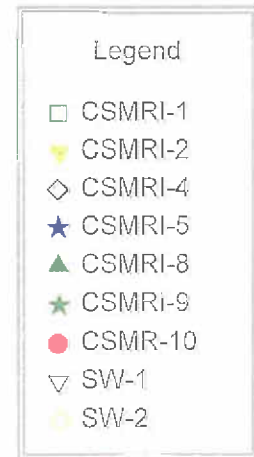
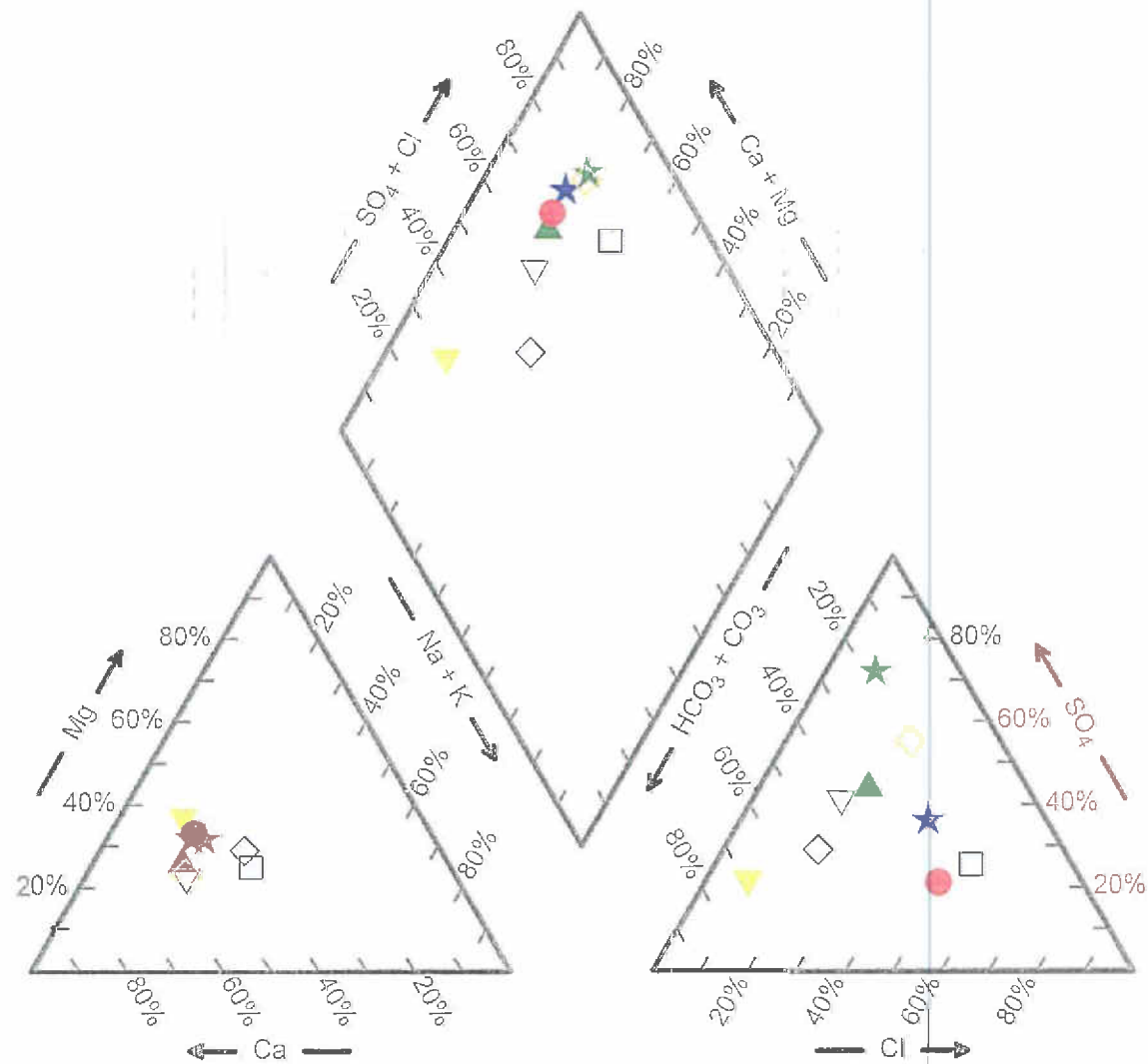
NE – Not Established

(B) – Detected above Instrument Detection Level but below Reported Detection Level

Appendix D

Piper Stiff Diagram and Anion/Cation Analyses

Piper Diagram CSMRI 2009 Quarter 2



CSMRI-1

| | | | |
|----------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-Cl | | |
| Dissolved Solids | 283.47 mg/kg | 282.69 mg/L | Calculated |
| Density | 0.99724 g/cm ³ | | Calculated |
| Conductivity | 562 µmho/cm | | Measured |
| Hardness (as CaCO ₃) | | | |
| Total | 143.82 mg/kg | 143.43 mg/L | Calculated |
| Carbonate | 125.15 | 124.8 | |
| Non-Carbonate | 18.673 | 18.622 | |

CSMRI-1

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----------------------|
| Anions | 3.9 | |
| Cations | 4.34 | |
| % Difference | 5.407 | Not within $\pm 2\%$ |

Measured TDS = Calculated TDS

| | |
|------------|---------|
| Measured | N/A |
| Calculated | 283.471 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|---------|-----------------------------|
| Measured | 562.000 | |
| Calculated | 436.110 | |
| Ratio | 1.289 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|----------------------------|----------|---------------------------------------|
| Anions | 0.693460 | Not within preferred range (0.9-1.1) |
| Cations | 0.772744 | Not within preferred range (0.9-1.1) |
| Calculated TDS to EC ratio | 0.504 | Not within preferred range (0.55-0.7) |

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC \geq Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 1.000 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

CSMRI-1B

| | | | |
|----------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-SO ₄ | | |
| Dissolved Solids | 969.37 mg/kg | 967.2 mg/L | Calculated |
| Density | 0.99776 g/cm ³ | | Calculated |
| Conductivity | 2120 µmho/cm | | Measured |
| Hardness (as CaCO ₃) | | | |
| Total | 602.13 mg/kg | 600.78 mg/L | Calculated |
| Carbonate | 493.76 | 492.65 | |
| Non-Carbonate | 108.37 | 108.12 | |

CSMRI-1B

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----|
| Anions | 13.4 | |
| Cations | 14.8 | |
| % Difference | 4.724 | OK |

Measured TDS = Calculated TDS

| | |
|------------|---------|
| Measured | N/A |
| Calculated | 969.369 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|----------|-----------------------------|
| Measured | 2120.000 | |
| Calculated | 1291.796 | |
| Ratio | 1.641 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|----------------------------|----------|---------------------------------------|
| Anions | 0.633261 | Not within preferred range (0.9-1.1) |
| Cations | 0.696062 | Not within preferred range (0.9-1.1) |
| Calculated TDS to EC ratio | 0.457 | Not within preferred range (0.55-0.7) |

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC ≥ Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 2.600 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

CSMRI-2

| | | | |
|---------------------------------------|---------------------------|------------|------------|
| Water Type | Ca-HCO ₃ | | |
| Dissolved Solids | 563.03 mg/kg | 561.6 mg/L | Calculated |
| Density | 0.99746 g/cm ³ | | Calculated |
| Conductivity | 1280 µmho/cm | | Measured |
| Hardness (as CaCO₃) | | | |
| Total | 337.26 mg/kg | 336.4 mg/L | Calculated |
| Carbonate | 337.26 | 336.4 | |
| Non-Carbonate | 0.0 | 0.0 | |

CSMRI-2

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----------------------|
| Anions | 6.76 | |
| Cations | 7.76 | |
| % Difference | 6.918 | Not within $\pm 2\%$ |

Measured TDS = Calculated TDS

| | |
|------------|---------|
| Measured | N/A |
| Calculated | 563.032 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|----------|-----------------------------|
| Measured | 1280.000 | |
| Calculated | 650.458 | |
| Ratio | 1.968 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|----------------------------|----------|---------------------------------------|
| Anions | 0.527895 | Not within preferred range (0.9-1.1) |
| Cations | 0.606360 | Not within preferred range (0.9-1.1) |
| Calculated TDS to EC ratio | 0.440 | Not within preferred range (0.55-0.7) |

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC \geq Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 1.000 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

CSMRI-4

| | | | |
|----------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-HCO ₃ | | |
| Dissolved Solids | 804.9 mg/kg | 803 mg/L | Calculated |
| Density | 0.99764 g/cm ³ | | Calculated |
| Conductivity | 1190 µmho/cm | | Measured |
| Hardness (as CaCO ₃) | | | |
| Total | 379.61 mg/kg | 378.72 mg/L | Calculated |
| Carbonate | 379.61 | 378.72 | |
| Non-Carbonate | 0.0 | 0.0 | |

CSMRI-4

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----|
| Anions | 10.2 | |
| Cations | 10.9 | |
| % Difference | 3.639 | OK |

Measured TDS = Calculated TDS

| | |
|------------|---------|
| Measured | N/A |
| Calculated | 804.901 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|----------|-----------------------------|
| Measured | 1190.000 | |
| Calculated | 952.797 | |
| Ratio | 1.249 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|---------|----------|--------------------------------------|
| Anions | 0.853222 | Not within preferred range (0.9-1.1) |
| Cations | 0.917657 | Within preferred range (0.9-1.1) |

Calculated TDS to EC ratio 0.676 OK

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC ≥ Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 9.000 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

CSMRI-5

| | | | |
|---------------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-Cl | | |
| Dissolved Solids | 861.5 mg/kg | 859.5 mg/L | Calculated |
| Density | 0.99768 g/cm ³ | | Calculated |
| Conductivity | 1500 µmho/cm | | Measured |
| Hardness (as CaCO₃) | | | |
| Total | 531.74 mg/kg | 530.51 mg/L | Calculated |
| Carbonate | 395.15 | 394.23 | |
| Non-Carbonate | 136.59 | 136.28 | |

CSMRI-5

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----|
| Anions | 12.1 | |
| Cations | 13 | |
| % Difference | 3.330 | OK |

Measured TDS = Calculated TDS

| | |
|------------|---------|
| Measured | N/A |
| Calculated | 861.498 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|----------|-----------------------------|
| Measured | 1500.000 | |
| Calculated | 1191.236 | |
| Ratio | 1.259 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|---------|----------|--------------------------------------|
| Anions | 0.808847 | Not within preferred range (0.9-1.1) |
| Cations | 0.864576 | Not within preferred range (0.9-1.1) |

Calculated TDS to EC ratio 0.574 OK

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC ≥ Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 2.600 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

CSMRI-8

| | | | |
|----------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-SO ₄ | | |
| Dissolved Solids | 1055.3 mg/kg | 1053 mg/L | Calculated |
| Density | 0.99783 g/cm ³ | | Calculated |
| Conductivity | 7520 µmho/cm | | Measured |
| Hardness (as CaCO ₃) | | | |
| Total | 623.51 mg/kg | 622.15 mg/L | Calculated |
| Carbonate | 608.8 | 607.48 | |
| Non-Carbonate | 14.707 | 14.675 | |

CSMRI-8

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----------------------|
| Anions | 13.3 | |
| Cations | 15.4 | |
| % Difference | 7.344 | Not within $\pm 5\%$ |

Measured TDS = Calculated TDS

| | |
|------------|----------|
| Measured | N/A |
| Calculated | 1055.293 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|----------|-----------------------------|
| Measured | 7520.000 | |
| Calculated | 1312.358 | |
| Ratio | 5.730 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|----------------------------|----------|---------------------------------------|
| Anions | 0.176783 | Not within preferred range (0.9-1.1) |
| Cations | 0.204806 | Not within preferred range (0.9-1.1) |
| Calculated TDS to EC ratio | 0.140 | Not within preferred range (0.55-0.7) |

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC \geq Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 4.500 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

CSMRI-9

| | | | |
|---------------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-SO ₄ | | |
| Dissolved Solids | 1740.4 mg/kg | 1737.5 mg/L | Calculated |
| Density | 0.99834 g/cm ³ | | Calculated |
| Conductivity | 2300 µmho/cm | | Measured |
| Hardness (as CaCO₃) | | | |
| Total | 1037.8 mg/kg | 1036.1 mg/L | Calculated |
| Carbonate | 526.33 | 525.46 | |
| Non-Carbonate | 511.44 | 510.59 | |

CSMRI-9

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----|
| Anions | 24.2 | |
| Cations | 26.2 | |
| % Difference | 4.128 | OK |

Measured TDS = Calculated TDS

| | | |
|------------|----------|--|
| Measured | N/A | |
| Calculated | 1740.384 | |
| Ratio | N/A | |

Measured EC = Calculated EC

| | | |
|------------|----------|----|
| Measured | 2300.000 | |
| Calculated | 2201.533 | |
| Ratio | 1.045 | OK |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|----------------------------|----------|---------------------------------------|
| Anions | 1.050061 | Within preferred range (0.9-1.1) |
| Cations | 1.140488 | Not within preferred range (0.9-1.1) |
| Calculated TDS to EC ratio | 0.757 | Not within preferred range (0.55-0.7) |

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC ≥ Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 4.800 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

CSMR-10

| | | | |
|----------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-Cl | | |
| Dissolved Solids | 652.22 mg/kg | 650.6 mg/L | Calculated |
| Density | 0.99752 g/cm ³ | | Calculated |
| Conductivity | 1150 µmho/cm | | Measured |
| Hardness (as CaCO ₃) | | | |
| Total | 419.58 mg/kg | 418.54 mg/L | Calculated |
| Carbonate | 337.24 | 336.41 | |
| Non-Carbonate | 82.333 | 82.129 | |

CSMR-10

Primary Tests

Anion-Cation Balance

| | | |
|--------------|-------|----------------------|
| Anions | 9.31 | |
| Cations | 10.2 | |
| % Difference | 4.673 | Not within $\pm 2\%$ |

Measured TDS = Calculated TDS

| | |
|------------|---------|
| Measured | N/A |
| Calculated | 652.215 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|----------|-----------------------------|
| Measured | 1150.000 | |
| Calculated | 938.996 | |
| Ratio | 1.225 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|---------|----------|--------------------------------------|
| Anions | 0.809281 | Not within preferred range (0.9-1.1) |
| Cations | 0.888624 | Not within preferred range (0.9-1.1) |

Calculated TDS to EC ratio 0.567 OK

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC \geq Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 1.300 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

SW-1

| | | | |
|----------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-SO ₄ | | |
| Dissolved Solids | 58.291 mg/kg | 58.12 mg/L | Calculated |
| Density | 0.99707 g/cm ³ | | Calculated |
| Conductivity | 79 µmho/cm | | Measured |
| Hardness (as CaCO ₃) | | | |
| Total | 30.461 mg/kg | 30.372 mg/L | Calculated |
| Carbonate | 30.461 | 30.372 | |
| Non-Carbonate | 0.0 | 0.0 | |

SW-1

Primary Tests

Anion-Cation Balance

| | | |
|--------------|----------------------|----|
| Anions | 628×10^{-3} | |
| Cations | 774×10^{-3} | |
| % Difference | 10.419 | OK |

Measured TDS = Calculated TDS

| | |
|------------|--------|
| Measured | N/A |
| Calculated | 58.291 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|--------|----|
| Measured | 79.000 | |
| Calculated | 78.182 | |
| Ratio | 1.010 | OK |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|----------------------------|----------|---------------------------------------|
| Anions | 0.795232 | Not within preferred range (0.9-1.1) |
| Cations | 0.980208 | Within preferred range (0.9-1.1) |
| Calculated TDS to EC ratio | 0.738 | Not within preferred range (0.55-0.7) |

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC \geq Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 2.100 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

SW-2

| | | | |
|----------------------------------|---------------------------|-------------|------------|
| Water Type | Ca-SO ₄ | | |
| Dissolved Solids | 59.474 mg/kg | 59.3 mg/L | Calculated |
| Density | 0.99708 g/cm ³ | | Calculated |
| Conductivity | 112 µmho/cm | | Measured |
| Hardness (as CaCO ₃) | | | |
| Total | 30.874 mg/kg | 30.783 mg/L | Calculated |
| Carbonate | 30.874 | 30.784 | |
| Non-Carbonate | 0.0 | 0.0 | |

SW-2

Primary Tests

Anion-Cation Balance

| | | |
|--------------|----------------------|-----------------------|
| Anions | 472×10 ⁻³ | |
| Cations | 784×10 ⁻³ | |
| % Difference | 24.830 | Not within ± 0.2meq/L |

Measured TDS = Calculated TDS

| | |
|------------|--------|
| Measured | N/A |
| Calculated | 59.474 |
| Ratio | N/A |

Measured EC = Calculated EC

| | | |
|------------|---------|-----------------------------|
| Measured | 112.000 | |
| Calculated | 72.843 | |
| Ratio | 1.538 | Not within range 0.9 to 1.1 |

Secondary Tests

Measured EC and Ion Sums:

| | | |
|---------|----------|--------------------------------------|
| Anions | 0.421326 | Not within preferred range (0.9-1.1) |
| Cations | 0.699666 | Not within preferred range (0.9-1.1) |

Calculated TDS to EC ratio 0.531 Not within preferred range (0.55-0.7)

Measured TDS to EC ratio

Measured TDS unavailable

Organic Mass Balance

DOC ≥ Sum of Organics

| | | |
|--------------------------|------------|----|
| Dissolved Organic Carbon | 2.100 mg/L | |
| Sum of Organics | 0.000 mg/L | OK |

Appendix E
Site Photo Log

CSMRI Soil Loadout Photo Log



Stockpile A soil being loaded into lined trucks for transportation to Clean Harbors Deer Trail Facility. A total of 11 trucks were shipped to this facility on August 20, 2007.



Stockpile B soils were transported to Allied Wastes Foothills Facility using side dump trucks. A total of 615 truck loads were transported from August 21 through September 7, 2007.



After the trucks were loaded with soil, they stopped at the site checkout where all paperwork was completed and any dry decontamination that was needed was completed. Each truck was also scanned to ensure no spread of contamination was occurring and that the load was within control limits.



Each truck is scanned for both the activity emanating from the load to ensure compliance with DOT and landfill requirements, and the truck tires are scanned to ensure no spread of contamination.



Soil was trucked to the disposal facility where it was dumped in a specific designated area. Each load was spread using a dozer and covered with clean soil.



At the landfill, soil was spread with a dozer and covered with clean soil using a scraper.



The soil disposal area at Foothills landfill was located just past the bottom of the access road as seen in this picture. One truck coming and one leaving as the spreading and covering operations proceed. North Table Mountain is in the background.



Trucks entered the site and pulled forward to the loadout area. A dozer pushed soil to the excavator which was completing the loadout. Dust control was performed continuously as soil movement was in progress.



As the pile became smaller, soil along with the liner were pushed toward the excavator.



Final site surveys were conducted using a sodium iodide detector to ensure all soil requiring removal was included in the last truck. Final confirmatory sampling was conducted after all impacted soil was removed.


Appendix F

Site Personnel Documents
Safety Meeting Documentation
Employee and Visitor Logs

| Tailgate Discussion Topic |
|--|
| Heat, mosquitoes, soil review of coasts - Fishing |

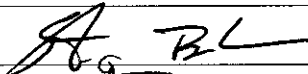
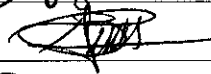
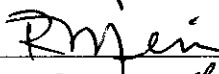
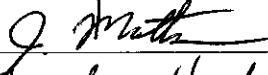
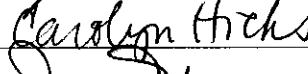
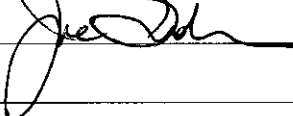
Date of Meeting 8/17/07

Meeting Conducted by:

Printed Name Steve B. Signature 

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|----------|-----------------|--|
| AUG 17 | STEVE BOULMUN |  |
| AUG. 17. | Alvaro Aguirre. |  |
| 8-17-07 | Bob Mein |  |
| 8/17/07 | Jerry Mattson |  |
| 8/17/07 | Carolyn Hicks |  |
| 8/17/07 | Joe Gordon |  |
| | | |
| | | |
| | | |
| | | |

Stoller

TAILGATE MEETING DOCUMENTATION

Tailgate Discussion Topic

Traffic Control, Flagging, dust.

Date of Meeting 8/20/07

Meeting Conducted by:

Printed Name Steve Brinkman Signature [Signature]

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|------|----------------|---------------|
| 8/20 | STEVE BRINKMAN | [Signature] |
| 8/20 | Bob Mein | [Signature] |
| 8/20 | Alvaro Aguirre | [Signature] |
| 8/20 | J. ~ DASHOR | [Signature] |
| 8/20 | Carolyn Hicks | Carolyn Hicks |
| 8/20 | Jerry Mattson | J. Mattson |
| | | |
| | | |
| | | |
| | | |
| | | |

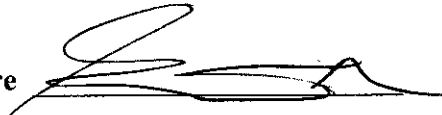
Stoller

TAILGATE MEETING DOCUMENTATION

| Tailgate Discussion Topic |
|--|
| Truck Flow Pattern, Wind direction, Heat issues, Trucker Handouts |

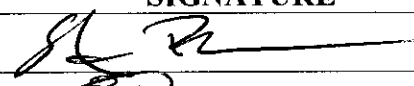
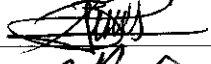
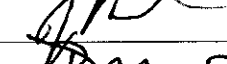
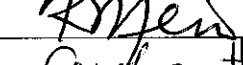
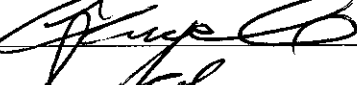
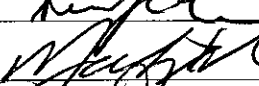
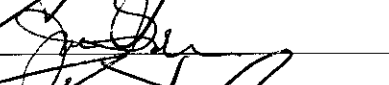
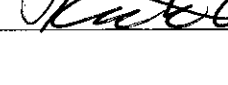

Date of Meeting 8/21/07

Meeting Conducted by:

Printed Name Steve Brinkman Signature 

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|------|----------------|--|
| 8/21 | STEVE BRINKMAN |  |
| 8/21 | Alvaro Aguirre |  |
| 8/21 | Jim Baston |  |
| 8-21 | Bob Mein |  |
| 8-21 | Carolyn Hicks | Carolyn Hicks |
| 821 | Ken Shannon | Ken Shannon |
| 8/21 | Chuck Foy |  |
| 8/21 | Sean Oron |  |
| 8/21 | MARK PHELAN |  |
| 8/21 | Joe Gordon |  |
| 8-21 | Rick Anacleto |  |

Stoller

TAILGATE MEETING DOCUMENTATION

| Tailgate Discussion Topic |
|---|
| Road Dust Control, T-Storms (establish a procedure for Run / Hydrating) |

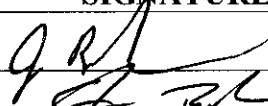
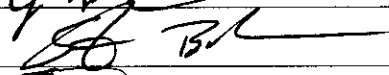
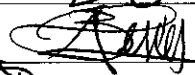
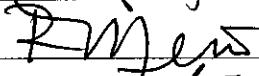
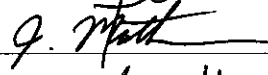
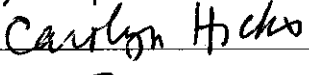
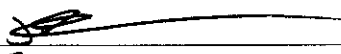
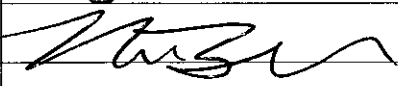
Date of Meeting 8/22/07

Meeting Conducted by:

Printed Name Steve Brinkman Signature 

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|------|----------------|--|
| 8/22 | JIM BASHOR |  |
| 8/22 | STEVE BULKNUM |  |
| 8/22 | Alvaro Aguirre |  |
| 8-22 | Bob Mein |  |
| 8/22 | Jerry Mattson |  |
| 8/22 | Carolyn Hicks |  |
| 8/22 | JP Benson |  |
| 8/22 | Nick Benson |  |
| | | |
| | | |
| | | |

TAILGATE MEETING DOCUMENTATION

T-Storms This Afternoon, House keeping
Dozer super -

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|------|----------------|-------------|
| 8/23 | Jerry Mattson | J. Mattson |
| 8/23 | STEVE BURMAN | [Signature] |
| 8/23 | Jim Aslar | [Signature] |
| 8/23 | Alvaro Aguirre | [Signature] |
| 8-23 | Bob Meier | RMeier |
| | | |
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TAILGATE MEETING DOCUMENTATION

Date of Meeting operations cancelled due to Rain.

Printed Name _____ **Signature** _____

Attach Any Handouts and File in Project Files

[illegible]

TAILGATE MEETING DOCUMENTATION

P.O.D. review - Traffic control, Dist.
Weather & Tomorrow's plan

Attach Any Handouts and File in Project Files

[illegible]

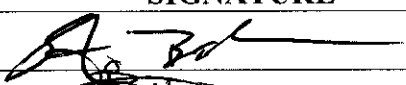

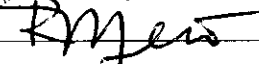

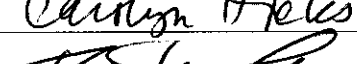

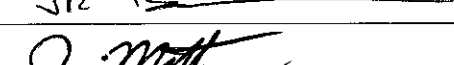
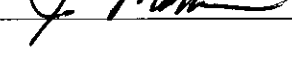
| Tailgate Discussion Topic |
|---|
| <p>Truck coordination between B pile + floodplain trucks</p> <p>Cross line construction traffic</p> |

Date of Meeting 8-28-07

Meeting Conducted by: Carolyn Hicks

Printed Name Carolyn Hicks Signature _____

Meeting Attendees: Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|--------------------|--------------------|--|
| 8/28/07 | STEVE BULLHORN |  |
| 8/28/07 | Alvaro J. Aguirre |  |
| 8-28-07 | Bob Meier |  |
| 8-28-07 | Paul Mendoza |  |
| 8/28/07 | Carolyn Hicks |  |
| 8/28/07 | Rick Anacleto |  |
| 8/28/07 | JR Baise |  |
| 8/28/07 | Jerry Mattson |  |
| 8-28-07 | Carolyn | |
| | | |
| | | |

Stoller

TAILGATE MEETING DOCUMENTATION

Tailgate Discussion Topic

End of-day Dust Suppression. Maintaining
Productivity (Feed the Xcavator) & how
to do it all Safely!

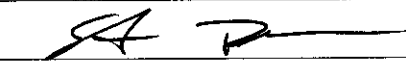
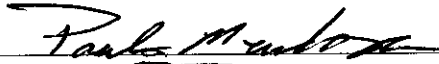

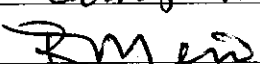
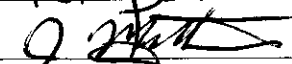
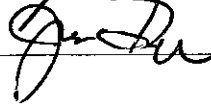
Date of Meeting 8/29/07

Meeting Conducted by:

Printed Name Steve Brinkman Signature 

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|---------|--------------------|--|
| 8/29/07 | STEVE BRINKMAN |  |
| 8/29/07 | Paul Mendoza |  |
| 8/29/07 | Alvaros J. Aguirre |  |
| 8/29/07 | Carolyn Hicks | Carolyn Hicks |
| 8-29-07 | Bob Mein |  |
| 8/29/07 | Jerry Mattson |  |
| 8/29/07 | Joe Gordon |  |
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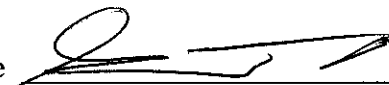
Stoller

TAILGATE MEETING DOCUMENTATION

| Tailgate Discussion Topic |
|---|
| Larger Dozer - Any Issues ? - - Slow & Safe - How dirt will be moved ? - Dust is The main Issue |

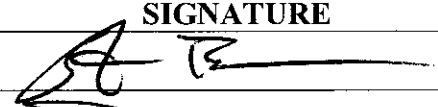
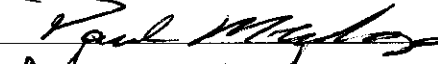
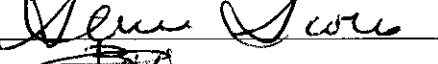
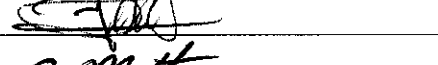
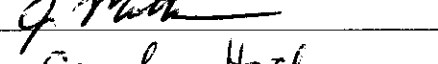
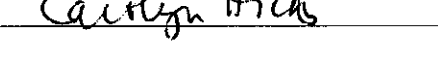
Date of Meeting 8/20/07

Meeting Conducted by:

Printed Name Steve Berkman Signature 

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|---------|------------------|--|
| 8/30/07 | STEVE BERKMAN |  |
| | Paul Mendoza |  |
| | Steve Stiles |  |
| 8/30/07 | Alvaro J Aguirre |  |
| 8/30/07 | Jerry Mattson |  |
| 8/30/07 | Carolyn Hicks |  |
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Stoller

TAILGATE MEETING DOCUMENTATION

Tailgate Discussion Topic

Long week-end Stats -
Duck, weekend prep & sire stabilize

Date of Meeting 8/31/07

Meeting Conducted by:

Printed Name Steve Brinkman Signature [Signature]

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|------|-------------------|-------------|
| 8/31 | STEVE BRINKMAN | [Signature] |
| 8/31 | STEVE SWALES | [Signature] |
| 8/31 | Paul Mendoza | [Signature] |
| 8/31 | Carolyn Hicks | [Signature] |
| 8/31 | Alvaro J. Aguirre | [Signature] |
| 8/31 | Jerry Mattson | [Signature] |
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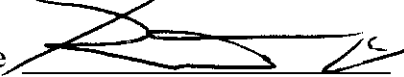
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TAILGATE MEETING DOCUMENTATION

| Tailgate Discussion Topic |
|--|
| Dust Control vs making mud, Truck count, schedule, Scales on 93 |

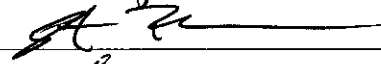




Date of Meeting 9/4/07

Meeting Conducted by:

Printed Name Steve Banker Signature 

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|--------|-------------------|--|
| 9-4-07 | Carolyn Hicks | Carolyn Hicks |
| 9/4/07 | STEVE BULLKUM |  |
| 9/4/07 | STEVE SCALLES |  |
| 9/4/07 | Alvaro J. Aguirre |  |
| 9/4/07 | Jerry Mattson |  |
| 9/4/07 | Nick Malczyk |  |
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Stoller

TAILGATE MEETING DOCUMENTATION

Tailgate Discussion Topic

Weather & Schedule -
Minimize soil from below liner
Trucks

Date of Meeting 9/5/07

Meeting Conducted by:

Printed Name Steve B. Signature [Signature]

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|--------|-------------------|-------------|
| 9/5/07 | STEVEN SAXES | [Signature] |
| 9/5/07 | Alvaro O. Aguirre | [Signature] |
| 9/5/07 | STEVE BUCKNOM | [Signature] |
| 9/5/07 | Jerry Mattison | [Signature] |
| 9/5/07 | Nick Melnyk | [Signature] |
| 9/ | | |
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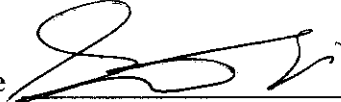
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TAILGATE MEETING DOCUMENTATION

| Tailgate Discussion Topic |
|--|
| Mosquitoes, Haul truck, Lightening Dust from Concrete |

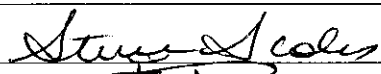

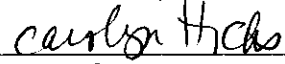
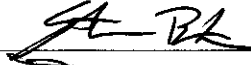
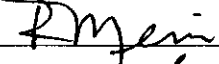

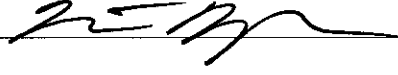
Date of Meeting 9/6/07

Meeting Conducted by:

Printed Name Steve Brinkman Signature 

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|--------|-------------------|--|
| 9/6/07 | STEVEN SCOLES |  |
| 9/6/07 | Alvaro J. Aguirre |  |
| 9/6/07 | Carolyn Hicks |  |
| 9/6/07 | STEVE BRINKMAN |  |
| 9-6-07 | Bob Mein |  |
| 9-6-07 | Jerry Mattson |  |
| 9/6/07 | Nick Mulvaney |  |
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Stoller

TAILGATE MEETING DOCUMENTATION

Tailgate Discussion Topic

Last day.
Stay focussed
Dust control

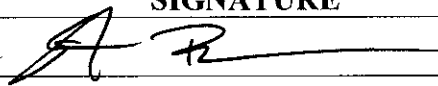
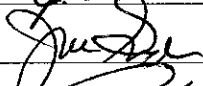
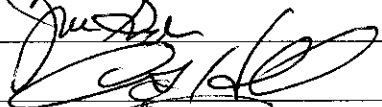

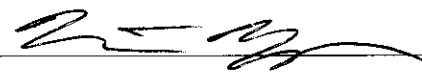
Date of Meeting 9/7/07

Meeting Conducted by:

Printed Name Jerry Mattson Signature J. Mattson

Meeting Attendees:

Attach Any Handouts and File in Project Files

| DATE | PRINTED NAME | SIGNATURE |
|--------|-------------------|--|
| 9/7/07 | STEVE BURKETT |  |
| 9/7/07 | Carolyn Hicks | Carolyn Hicks |
| 9/7/07 | Jerry Mattson | J. Mattson |
| 9/7/07 | Joe Gordon |  |
| 9/7/07 | Curt Holl |  |
| 9/7/07 | Alvaro J. Aguirre |  |
| 9/7/07 | STEVEN SCOTTS | Steven Scotts |
| 9/7/07 | Nick Malczuk |  |
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Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|----------------|--------------|-----------|---------|--------------------|-------------|-------------------------------|
| Carolyn Hicks | | 8-16-07 | 0700 | 0330 | 8.5 | |
| Jerry Mattson | Red | 8-16-07 | 0700 | 0330 | 8.5 | |
| Carolyn Hicks | | 8-17-07 | 0700 | 0410 | 9 | |
| Sue Barker | | 8/17/07 | 0640 | 12 ^{noon} | | |
| Bob Meier | | 8-17-07 | 0640 | | | |
| Alvaro Aguirre | | 8/17/07 | 6:40 | | | |
| STEVE BUCKLEY | FOREMAN | AUG 17 07 | 6:40 | | | |
| Jerry Mattson | | 8/17/07 | 0700 | | | |
| Joe Gordon | | 8/17/07 | 0830 | 10:40 | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-----------------|-------------------|------|---------|----------|-------------|-------------------------------|
| Linn Hardick | CSM | 8-17 | 9:00AM | 10:00 | | Precast. Mtg |
| Steve Brink | PM | 8/20 | 6:20 | | | |
| STEVE BUCKNER | FOREMAN | 8/20 | 6:20AM | 12:00 | | |
| Bob Mein | Field Coordinator | 8/20 | 6:26 | | | |
| Alvaro Aguirre. | | 8/20 | 6:27. | | | |
| Jim BASHOR | | 8/20 | 6:27 | | | |
| Carolyn Hicks | | 8/20 | 6:50 | 1630 | | |
| Jerry Mattson | | 8/20 | 0700 | 1630 | | |
| FRANK GRIVÉ | - | 8/20 | 1300 | 1345 | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-------------------|--------------------|------|---------|----------|-------------|-------------------------------|
| Steve Brinkman | PM | 8/21 | 6:30 | 12:00 | | |
| Jerry Mattson | Rail | 8/21 | 6:30 | 4:30 | | |
| STEVE BRINKMAN | FLANNUM FOREMAN | 8/21 | 6:30 | ↑ ↓ | | |
| Alvaro Aguirre | | 8/21 | 6:30 | | | |
| Sir BASHAR | | 8/21 | 6:30 | | | |
| Bob McEwen | | 8-21 | 6:30 | | | |
| Carolyn Hicks | | 8-21 | 6:50 | 4:30 | | |
| Ken Shannon | Driver | 8/21 | 7:00 | | | |
| Chuck Foy | Driver | 8/21 | 7:00 | | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|----------------|--------------|---------|---------|----------|-------------|-------------------------------|
| Sean Brown | Driver | 8/21 | 7 am | | | |
| MARK PHILAN | DRIVER | 8/21 | 0700 | | | |
| Edward Colaco | Driver | 8-21-07 | 7:00 | | | |
| Leslie W. Ruiz | DRIVER | 8-21-07 | 7:00 | | | |
| M. K. Murray | Driver | 8-21 | 7:00 | | | |
| Joe Gordon | Staller | 8/21 | 8:00 | 9:00 | | |
| Rick Anacleto | Platinum | 8-21 | 11:00 | 11:45 | | |
| Steve Brykman | Sallyport | 8/22 | 6:20 | 10:30 | | |
| Jim Basco | | 8/22 | 6:20 | | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|---------------|---------------------|------|---------|----------|-------------|-------------------------------|
| STEVE BUCKNUM | FOREMAN | 8/22 | 6:30 | | | |
| ALDO FIGUEROA | | 8/22 | 6:30 | | | |
| Jerry Mattson | Rad | 8/22 | 6:30 | 4:45 | | |
| Carolyn Hicks | Rad | 8/22 | 0700 | 4:45 | | |
| JE Boser | oversight | 8/22 | 1:00 | 1:45 | | |
| Nick Benson | insurance survey | 8/22 | 1:00 | 1:45 | | |
| Park GRIFFIN | FOREMAN | 8/22 | 2:00 | | | |
| JOE GRIFFIN | Mechanic | 8/22 | 2:00 | | | |
| Carolyn Hicks | rad | 8/23 | 0630 | 04:00 | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|------------------|--------------|------|-----------------|----------|-------------|-------------------------------|
| Steve Burkman | PM | 8/23 | 6 ³⁰ | | | |
| Jerry Mattson | Rad | 8/23 | 6 ³⁰ | | | |
| STEVE BURKMAN | Foreman | 8/23 | 6 ³⁰ | | | |
| Jim Gaslor | | 8/23 | 6 ³⁰ | | | |
| Alvaro Aguilar | | 8/23 | 6 ³⁰ | | | |
| Bob Merin | | 8/23 | 6 ³⁰ | | | |
| Jerry Mattson | Rad | 8/24 | 0630 | 940 | | |
| Tracey Porel | Swinspect. | 8/24 | 0815 | 0845 | | |
| Bob Myer | Field Coord | 8/24 | 6 ³⁰ | 940 | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|----------------|--------------|------|---------|----------|-------------|-------------------------------|
| Alvaro Aguirre | | 8/24 | 6:30 | 9:40 | | |
| Jim Baslor | | 8/24 | 6:30 | 9:40 | | |
| Carolyn Hicks | rad | 8/24 | 6:30 | 9:40 | | |
| Steve Binkman | RM | 8/27 | 6:15 | 8 AM | | |
| Carolyn Hicks | rad | 8/27 | 6:35 | 4:45 | | |
| Bob Meier | Field Coord | 8/27 | 6:45 | | | |
| STEVE BINKMAN | Foreman | 8/27 | 6:45 | | | |
| Alvaro Aguirre | | 8/27 | 6:45 | 4:45 | | |
| Jerry Mattson | Rad | 8/27 | 6:30 | 4:45 | | |

**Employee Log
(including contractors)**

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-------------------|---------------------|------|---------|----------|-------------|-------------------------------|
| Jerry Mattson | Rad | 8/28 | 0630 | | | |
| STEVE Buckner | Platinum Foamran | 8/28 | 6:30 | | | |
| Alvaro J. Aguirre | Platinum | 8/28 | 6:50 | | | |
| Bob Mein | truck | 8/28 | 6:45 | | | |
| Paul Mendoza | Platinum | 8/28 | 6:45 | | | |
| Cardyn Hicks | rad | 8/28 | 6:35 | 4:40 | | |
| Barbara Jensen | rad | 8/28 | 6:55 | 4:40 | | |
| Reck Amelob | Platinum | 8/28 | 7:20 | 3 PM | | |
| JE Boren | Platinum | 8/28 | 7:20 | 3 PM | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-------------------|------------------|---------|---------|----------|-------------|-------------------------------|
| Jerry Mattson | Rad | 8/29 | 0630 | 430 | | |
| Carolyn Hicks | rad | 8/29 | 0640 | 430 | | |
| Steve Brubaker | PM | 8/29 | 0550 | 2:00 | | |
| STEVE BUCKMAN | PLATINUM EMER | 8/29 | 5:50 | | | |
| Alvaro J. Aguirre | Platinum F. | 8/29 | 6:30 | | | |
| Paul Mendoza | Platinum | 8/29 | 6:30 | | | |
| Bob Meiw | " | 8-29-07 | 6:30 | | | |
| Joe Gordon | Stellar | 8/29/07 | 12:00 | | | |
| Jerry Mattson | Rad | 8/30/07 | 6:30 | 1615 | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-------------------|--------------|------|---------|----------|-------------|-------------------------------|
| Steve Brinker, | P.M | 8/30 | 6:40 | | | |
| Carolyn Hicks | rad | 8/30 | 6:40 | 16:15 | | |
| Steve Seales | OPERATOR | 8/30 | 7:00 | | | |
| Steve Brinker | Foreman | 8/30 | 6:00 AM | | | |
| Paul Mendoza | " | 8/30 | 6:00 | | | |
| Alvaro J. Aguirre | Platinum | 8/30 | 6:40 | | | |
| Barbara Schoen | rad | 8/30 | 12:05 | 16:15 | | |
| | | | | | | |
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Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-------------------|---------------------|------|---------|----------|-------------|-------------------------------|
| Steve Robinson | PM | 8/31 | 5:57 | | | |
| STEVE Robinson | Platinum Foreman | 8/31 | 5:45 | | | |
| Paul meador | " | 8/31 | 5:45 | | | |
| Carolyn Hicks | rad | 8/31 | 6:00 | 1300 | | |
| Alexis J. Aguirre | Platinum | 8/31 | 6:00 | | | |
| Jerry Mattson | Rad | 8/31 | 0600 | 1300 | | |
| Steve Sears | Operator | 8/31 | 5:00 | | | |
| Jerry Mattson | RS | 9/4 | 6:30 | 4:30 | | |
| Steve Robinson | PM | 9/4 | 6:50 | 9:20 | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|------------------|----------------------|--------|---------|----------|-------------|-------------------------------|
| Carolyn Hicks | rad | 9-4-07 | 0645 | 4:30 | | |
| STEVE BUCKMAN | PLATINUM FORGER | 9/4/07 | 6:30 | | | |
| Steve Soares | Platinum Operator | 9/4/07 | 6:30 | | | |
| Alvaro Aguirre | Platinum | 9/4/07 | 6:30 | | | |
| Nick Malczuk | geologist | 9/4/07 | 0700 | 4:30 | | |
| Jerry Mattson | H&S | 9/5/07 | 0630 | | | |
| Carolyn Hicks | rad | 9/5/07 | 0640 | | | |
| Steve B | PR | " | 0625 | | | |
| Steve Soares | Operator | 9/5/07 | 6:35 | | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-------------------|--------------------|--------|-----------------|----------|-------------|-------------------------------|
| Alvaro J Aguirre | Platinum | 9/5/07 | 6:30 | | | |
| STEVE Buckner | PLATINUM FOOTER | 9/5/07 | 6:30 | | | |
| Nick Melnick | Stake | 9/5/07 | 0700 | | | |
| STEVEN SORCE | OPERATOR | 9/6/07 | 6:30 | | | |
| Alvaro J. Aguirre | Platinum | 9/6/07 | 6:30 | | | |
| Carolyn Hicks | rad | 9-6-07 | 0710 | 4:10 | | |
| STEVE Buckner | PLATINUM FOOTER | 9/6/07 | 6:30 | | | |
| Bob Wien | driver | 9-6-07 | 7 ¹⁵ | | | |
| Jerry Mattson | HRS | 9/6/07 | 0730 | | | |

Employee Log
(including contractors)

| Name | Job Function | Date | Time In | Time Out | Total Hours | Specific Activities Performed |
|-----------------|------------------|--------|---------|----------|-------------|-------------------------------|
| Nick McLeary | stoller | 9/6/07 | 0845 | | | |
| STAN Buckner | PLASTER GUYOT | 9/7/07 | 6:30 | | | |
| Carolyn Hicks | rad | 9/7/07 | 6:30 | | | |
| Jerry Mattson | Rad | 9/7/07 | 6:30 | | | |
| S. blinken | pin | 9/7/07 | 7 - | | | |
| T. Gordon | Stoller | 9/7/07 | 8:00 | | | |
| Curt Hull | Stoller | 9/7/07 | 8 - | | | |
| Tim Switzer | EHS- CSM | 9-7-07 | 8:35 | | | |
| Tom Glenn | EHS / CSM | 9/7/07 | 8:35 | | | |

**Employee Log
(including contractors)**

[illegible]

Appendix G

Radiological Instrumentation Calibration Records



Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER **S M STOLLER CORP**

ORDER NO. **281554/316067**

Ludlum Measurements, Inc. Model **2360** Serial No. **223249**
Mfg. Ludlum Measurements, Inc. Model **43-89** Serial No. **PR-227111**
Cal. Date **15-Aug-07** Cal Due Date **15-Aug-08** Cal. Interval **1 Year** Meterface **202-855**

Check mark ☒ applies to applicable instr. and/or detector IAW mfg. spec. T. **74** °F RH **41** % Alt **699.8** mm Hg

- ☐ New Instrument Instrument Received ☒ Within Toler. $\pm 10\%$ ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments
- ☒ Mechanical ck. ☒ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☐ F/S Resp. ck. ☒ Reset ck. ☒ Window Operation ☒ Geotropism
☒ Audio ck. ☐ Alarm Setting ck. ☒ Batt. ck. (Min. Volt) **2.2** VDC
☒ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set **750** v

☒ HV Readout (2 points) Ref./Inst. **500** / **500** V Ref./Inst. **1500** / **1500** V

Firmware Version: **39010n24**

Alpha Threshold: **120mv**

Beta Threshold: **3.5mv**

Beta Window: **30mv**

Overload **Set to simulate a light leak**

Instrument calibrated with a **39"** cable.

High voltage set with detector **disconnected**

(EEPROM Settings)

User Time: **1.0**

Alpha Alarm: **999999**

Beta Alarm: **999999**

A/B Alarm: **999999**

Model 2360 Date: **8/15/07**

Calibration Date Due: **8/15/08**

COMMENTS: Calibrated w/39" cable

Eff. for Th230sn:1495, Eff. $\approx 34.5\% \pi / 17.6\% \pi$, Source cout ≈ 3487 cpm - 0cpm Background

Source size = 10100cpm/19800dpm

Eff. for Tc99sn:5280-04, Eff. $\approx 22\% \pi / 13.9\% \pi$, Source cout ≈ 13290 cpm - 270cpm Background

Source size = 58300cpm/93239dpm

Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

| RANGE/MULTIPLIER | REFERENCE CAL. POINT | INSTRUMENT REC'D "AS FOUND READING" | INSTRUMENT METER READING* |
|------------------|----------------------|-------------------------------------|---------------------------|
| x1000 | 400kcpm | 400 | 400 |
| x1000 | 100kcpm | 100 | 100 |
| x100 | 40kcpm | 400 | 400 |
| x100 | 10kcpm | 100 | 100 |
| x10 | 4kcpm | 400 | 400 |
| x10 | 1kcpm | 100 | 100 |
| x1 | 400kcpm | 400 | 400 |
| x1 | 100kcpm | 100 | 100 |

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

ALL Range(s) Calibrated Electronically

| REFERENCE CAL. POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* | REFERENCE CAL. POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* |
|----------------------|---------------------|---------------------------|----------------------|---------------------|---------------------------|
| 400kcpm | 39678 (6) | 39678 (6) | | | |
| 40kcpm | 3968 | 3968 | | | |
| 4kcpm | 396 | 396 | | | |
| 400cpm | 40 | 40 | | | |
| 40cpm | 4 | 4 | | | |

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978

State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources:

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☒ Alpha S/N **Pu 239 S/N: 2928-01** ☒ Beta S/N **Tc99 S/N: 5280-04** ☐ Other **Sr 90 S/N: 5281-04**

m 500 S/N **50800** ☐ Oscilloscope S/N ☒ Multimeter S/N **83990502**

Calibrated By: **Charles Shirk** Date **15 Aug 07**

Reviewed By: **Rhonda Harris** Date **15 Aug 07**



Designer and Manufacturer
of
Scientific and Industrial
Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER S M STOLLER CORP ORDER NO. 281554/316067

Ludlum Measurements, Inc. Model 2929 Serial No. 176089

Mfg. Ludlum Measurements, Inc. Model 43-10-1 Serial No. PR-188733

Cal. Date 14-Aug-07 Cal Due Date 14-Aug-08 Cal. Interval 1 Year Meterface 202-014

Check mark ☒ applies to applicable Instr. and/or detector IAW mfg. spec. T. 73 °F RH 46 % Alt 701.8 mm Hg

☐ New Instrument Instrument Received ☒ Within Toler. +10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☒ Mechanical ck. ☒ Window Operation

☒ Audio ck.

☒ Meter Zeroed Alpha Sensitivity 175 mV Beta Sensitivity 4 mV Beta Window 50 mV

☒ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set 82.5 V = 3.42 on High Voltage dial. High Voltage set with detector connected.

☒ HV Readout (2 points) Ref./Inst. 500 1 500 V Ref./Inst. 1200 2000 CS 1 1200 V

COMMENTS:

Eff. for Tc99sn:8744, Eff \approx 59% π /37% π , Source count \approx 10758cpm - 67cpm background
Source size=18000cpm/28800dpm

Eff. for Th230sn:1495, Eff \approx 77% π /39% π , Source count \approx 7826cpm - 1cpm background
Source size=10100cpm/19800dpm

Hv. Calibrated with detector connected.
Calibrated w/39" cable

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

| | REFERENCE CAL POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* |
|---------------------------------------|---------------------|---------------------|---------------------------|
| Alpha Channel Digital Readout | 400K cpm | <u>39683</u> (07) | <u>39683</u> (07) |
| | 40K cpm | <u>3968</u> L | <u>3968</u> L |
| | 4K cpm | <u>397</u> } | <u>397</u> } |
| | 400 cpm | <u>40</u> } | <u>40</u> } |
| | 40 cpm | <u>4</u> } | <u>4</u> } |
| | REFERENCE CAL POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* |
| Beta/Gamma Channel Digital Readout | 400K cpm | <u>39681</u> (07) | <u>39681</u> (07) |
| | 40K cpm | <u>3968</u> L | <u>3968</u> L |
| | 4K cpm | <u>397</u> } | <u>397</u> } |
| | 400 cpm | <u>40</u> } | <u>40</u> } |
| | 40 cpm | <u>4</u> } | <u>4</u> } |

*Uncertainty within $\pm 10\%$ C.F. within $\pm 20\%$

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques.
The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources: ☐ S-394/1122 ☐ 1131 ☐ 781

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☒ Alpha S/N Pu239SN:8744 ☒ Beta S/N Tc99sn:5279-04 ☐ Other

☐ m 500 S/N 50800 ☐ Oscilloscope S/N ☒ Multimeter S/N 83990502

Calibrated By: Charles Shiff Date 14 Aug 07

Reviewed By: Rhonda Hamin Date 14 Aug 07

Appendix H (on CD)

**Truck Departure Forms
Outgoing Radiological Surveys,
Weigh Tickets,
and Non-hazardous Waste Manifests**

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|-------------|--------|---------|----------|----------------------------|
| Griene 12 | 9-5-07 | 0955 | 1004 | 18 cy |
| Griene 8 | | 1004 | 1010 | |
| Collazo 13 | | 1020 | 1030 | |
| Marquez 961 | | 1025 | 1039 | |
| Ruiz 95 | | 1030 | 1045 | |
| JD 04 | | 1040 | 1049 | |
| Marquez 96 | | 1048 | 1055 | |
| Griene 23 | | 1050 | 1104 | |
| Griene 24 | | 1104 | 1115 | |
| Griene 12 | | 1115 | 1124 | |
| Griene 8 | | 1124 | 1130 | |
| Collazo 13 | | 1135 | 1143 | |
| Marquez 961 | | 1155 | 1210 | |
| Ruiz 95 | | 1220 | 1237 | |
| JD 04 | | 1237 | 1247 | |
| Marquez 96 | | 1247 | 1259 | |
| Griene 23 | | 1300 | 1312 | |
| Griene 24 | | 1312 | 1326 | |
| Griene 12 | | 1326 | 1337 | |
| Griene 8 | | 1337 | 1352 | |

85.7

85.1

80.8

89.9

debris



Truck Departure Record Form

[illegible]

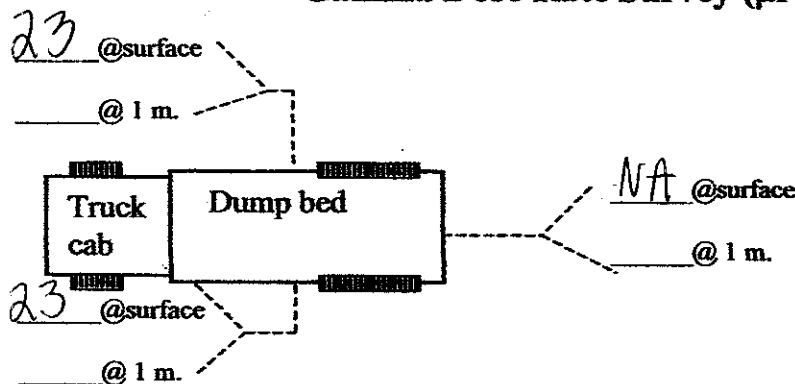
44 trucks 9/5/07

35 soil, 9 debris

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/06 1004 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

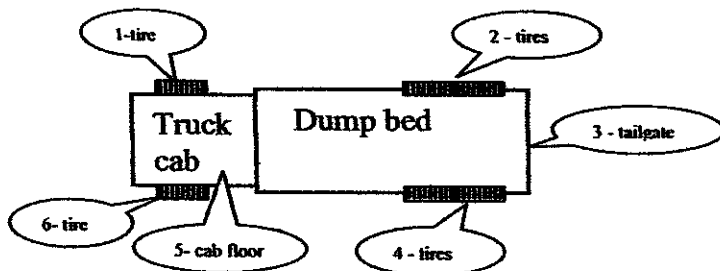
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550890

Please print or type.

| | | | | | | | |
|--|--|--|--|--|------|-------------------------------|---------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3558 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3558 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene Trucking #112 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Greene Trucking 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO 087 070908 YS11915 | | 18. Containers | | 19. Total Quantity 7-Yards | 20. Unit Wt/Vol 1-Tons |
| | | | | No. | Type | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month Day Year 8 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month Day Year 8 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519613

12

FOOTHILL LANDFILL

8900 HIGHWAY 92

GOLDEN

CO

960603

COLORADO SCHOOL OF MINES

1500 ILLINOIS ST

GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589967 | GRID 0000 |
| WEIGHMASTER 1500056 Barbers Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 10:20 am |
| DATE OUT 5 September 2007 | | TIME OUT 10:20 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550590 | ORIGIN | |

OG Gross Weight 85,740.00 lb

Tare Weight 37,700.00 lb

Net Weight 48,040.00 lb 24.03 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.03 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE _____





NON-HAZARDOUS WASTE MANIFEST

0550890

Please print or type

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Grove Trucking #112 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO 80401 (Adjacent to Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Norm Soil | | CO L67 070906 YS11915 | | 18 | | Y-Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 1 | Day 5 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 1 | Day 5 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

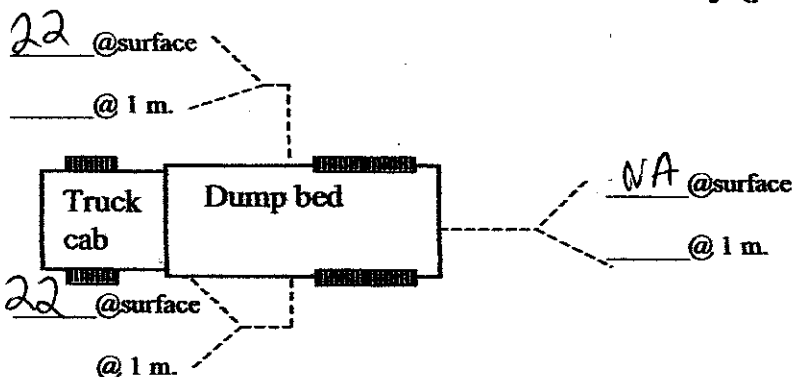
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1010 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

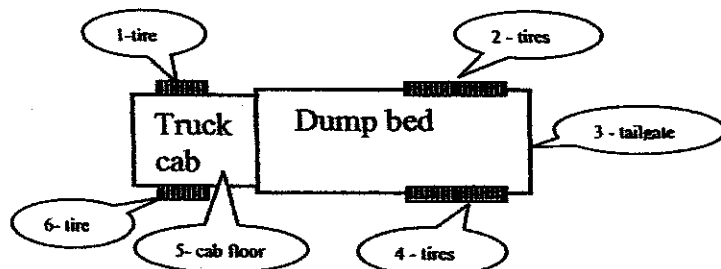
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550891

Please print or type:

| | | | | | | | | |
|--|--|--|--|--|--|--|---------------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3936 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3936 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 2300 Hill St Golden, CO 80401 (H) # 303-273-3936 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Non Soil | | 17. Allied Waste Approval # and Exp. Date CO 097 070008 Y511915 | | 18. Containers | | 19. Total Quantity Drums Y-Yards | 20. Unit Wt/Vol Gallons Tons | |
| | | | | No. Type 18 Y | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Blumhagen | | | | Signature [Signature] | | Month 8 | Day 5 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | | Month 01 | Day 05 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519623

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YB11915

| | | |
|--------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589972 | GRID 0000 |
| WEIGHMASTER \$800056 Kartana Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 10:25 am |
| DATE OUT 5 September 2007 | | TIME OUT 10:25 am |
| VEHICLE YB11915 | | ROLL OFF |
| REFERENCE 0550571 | ORIGIN | |

CO Gross Weight 81,260.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 44,720.00 lb 22.36 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.36 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0550891

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 8900 Hwy 93 Golden, CO ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L07 07/0008 Y511015 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Binkman | | Signature: [Signature] | | Month Day Year: 8/5/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Chuck Foy | | Signature: [Signature] | | Month Day Year: 09/05/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year: | |

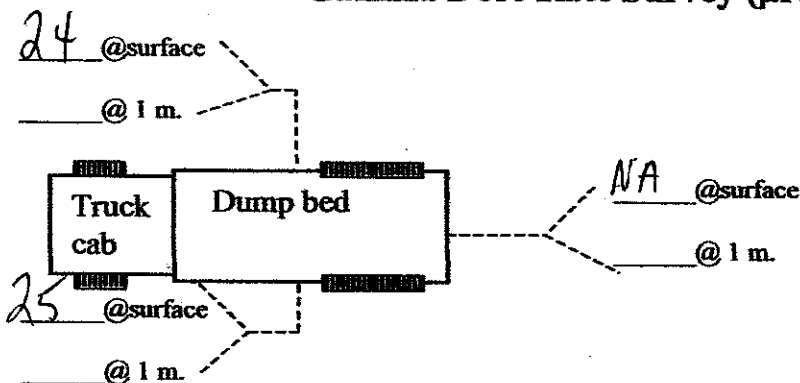
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1030 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

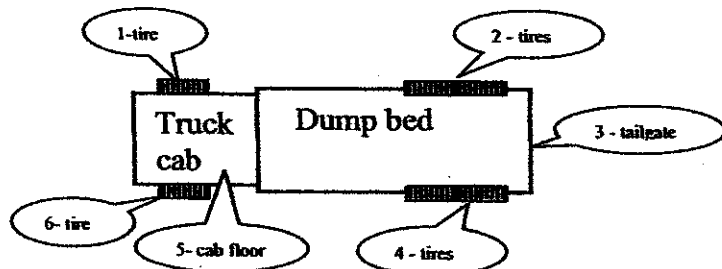
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550892

13

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|---------------------------------|-----------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3996 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado Landfill 2800 Hwy 66 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Ct. Drums | 20. Unit Wt/Vol Ct. Gallons | |
| | | | | No. | Type | | | |
| a. Norm Soil | | CO 067 070903 1511915 | | 18 | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 3 | Day 5 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Harold Collozo Lopez | | | | Signature | | Month 09 | Day 05 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519635

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589987 | GRID 0000 |
| WEIGHMASTER 5800056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 10:50 am |
| DATE OUT 5 September 2007 | | TIME OUT 10:50 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0530692 | ORIGIN | |

Gross Weight 85,100.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 49,400.00 lb 24.70 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.70 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0553892

13

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Sedalia Landfill 1500 Hwy 50 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 001107 070903 1511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Y-Yards | | | | | |
| 20. Unit Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Colorado Lopez | | Signature | | Month Day Year 07 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 7 | |

TRANSPORTER #1

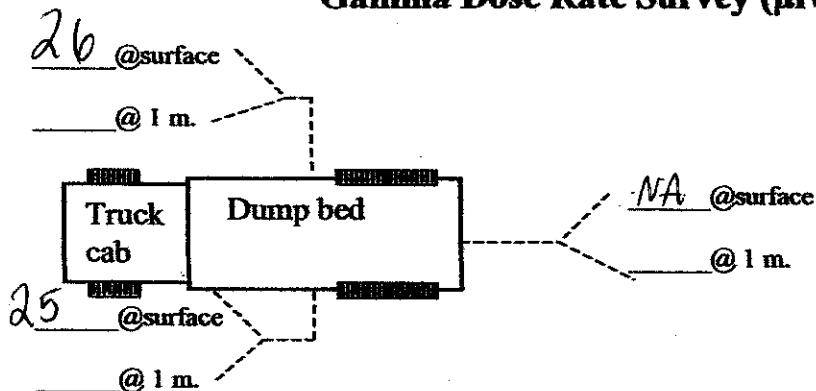
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1039 Surveyed by: J. Mattson C. Hicks

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

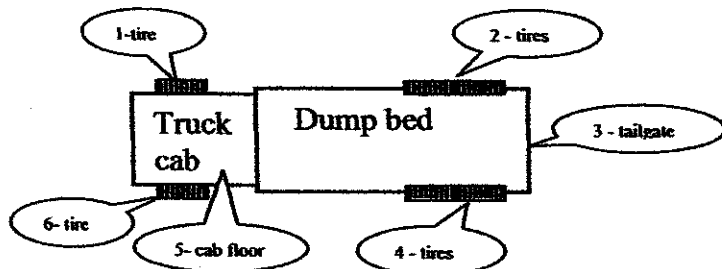
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



961

NON-HAZARDOUS WASTE MANIFEST

0550893

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 50 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 20. Unit Wt/Vol | |
| a. Harm Soil | | CO L67 070900 Y511915 | | Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 11 5 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 11 5 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519641

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 529993 | GRID 0000 |
| WEIGHMASTER 5500056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 10:57 am |
| DATE OUT 5 September 2007 | | TIME OUT 10:57 am |
| VEHICLE YS11915 | | ROLL OFF |
| REFERENCE 0250693 | ORIGIN | |

Gross Weight 79,920.00 LB
 Tare Weight 34,400.00 LB
 Net Weight 45,520.00 LB 22.76 TH

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.76 | TN | 3A-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



961

NON-HAZARDOUS WASTE MANIFEST

0550893

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontline Landfill 3000 Hwy 50 Golden, CO 80401 # 151115 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO167070903 Y51115 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Brinkman | | Signature: [Signature] | | Month: 1 Day: 5 Year: 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Name] | | Signature: [Signature] | | Month: 1 Day: 5 Year: 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Name] | | Signature: [Signature] | | Month: 1 Day: 5 Year: 97 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: [Name] | | Signature: [Signature] | | Month: 1 Day: 5 Year: 97 | |

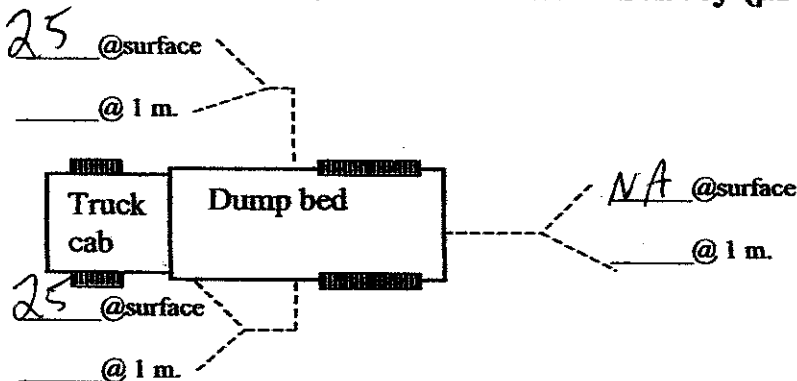
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/04 1045 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

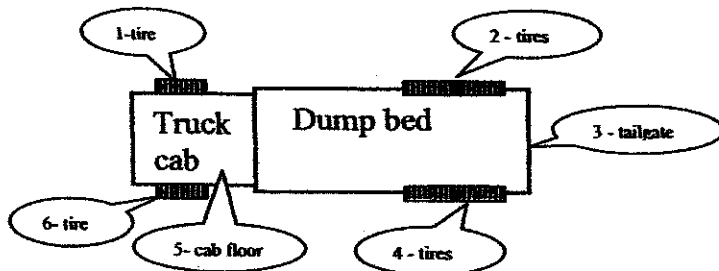
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 2200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|-------------------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550894

Please print or type.

| | | | | | | | | |
|---|--|---|--|--|------|-------------------------------|------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden CO 80401 303-273-3090 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden CO 80401 303-273-3090 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Research Institute 1500 Illinois St Golden CO ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G-Gallons | |
| | | | | No. | Type | | | |
| a. Harm Soil | | CC 187 070906 Y5:1915 | | | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Birkman | | | | Signature | | Month 7 | Day 5 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 1 | Day 1 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

519842

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN CO 80401

Contract: Y51191E

| | | | | | |
|-------------------------------------|--|------------------|----------------------|--------------|--|
| SITE 01 | | TICKET 529775 | | GRID 0000 | |
| WEIGHMASTER 8500056 Barbara Jo S | | | | | |
| DATE IN 5 September 2007 | | | TIME IN 11:01 am | | |
| DATE OUT 5 September 2007 | | | TIME OUT 11:01 am | | |
| VEHICLE Y51191E | | | ROLL OFF | | |
| REFERENCE 0250874 | | ORIGIN | | | |

Gross Weight 50,620.00 lb
 Tare Weight 36,950.00 lb
 Net Weight 43,640.00 lb 21.92 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.92 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550894

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3660 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3660 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Schmidt Leachfill 2500 Hwy 66 Golden, CO A/COLUM # 90000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Harm Soil | | CO16700901511015 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 11 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark | | Signature | | Month Day Year 11 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 11 5 07 | |

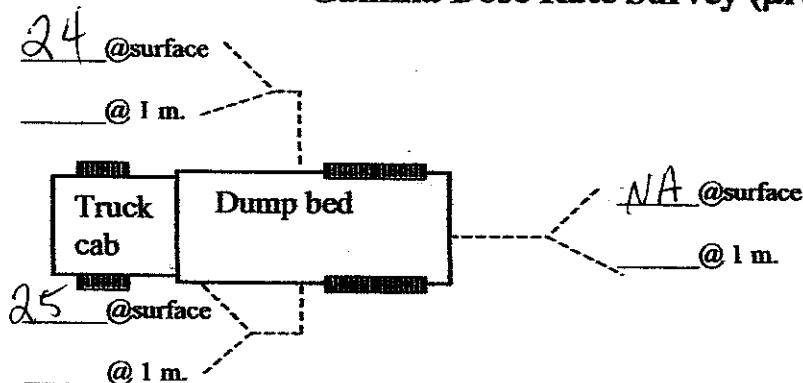
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1049 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

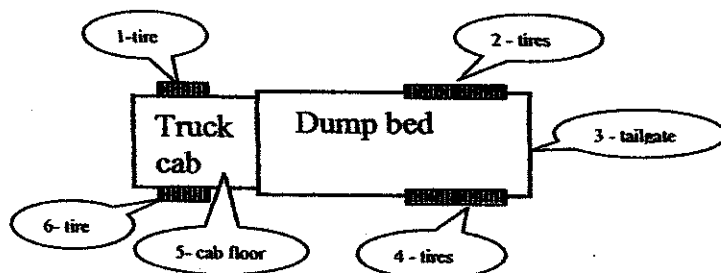
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550895

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|---|--------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Wines St Golden, CO 80401 4. Phone () 303-273-3668 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3668 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 80 Golden, CO 80401 (Altitude) # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0.000000 Y-Yards | 20. Unit 0.000000 T-Tons | |
| | | | | No. | Type | | | |
| a. Norm Soil | | 00167070006 / 5/19/15 | | | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Bratton | | | | Signature | | Month 7 | Day 5 | Year 04 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Sanjit Agre Vargos | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

519645

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 900603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589997 | GRID 0000 |
| WEIGHMASTER 6600056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 11:06 am |
| DATE OUT 5 September 2007 | | TIME OUT 11:06 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0050695 | ORIGIN | |

Gross Weight 76,480.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 40,840.00 lb 20.42 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.42 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

9-5-07



NON-HAZARDOUS WASTE MANIFEST

0550895

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Toothill Landfill 8000 Hwy 92 Golden, CO ACCOUNT # 00000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070900 Y5 11915 | | 19. Total Quantity 0 Drums 15 Yards 20. Unit Wt/Vol 5 Gallons Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Erickson | | Signature | | Month Day Year 9 5 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Scott A. Vargas | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

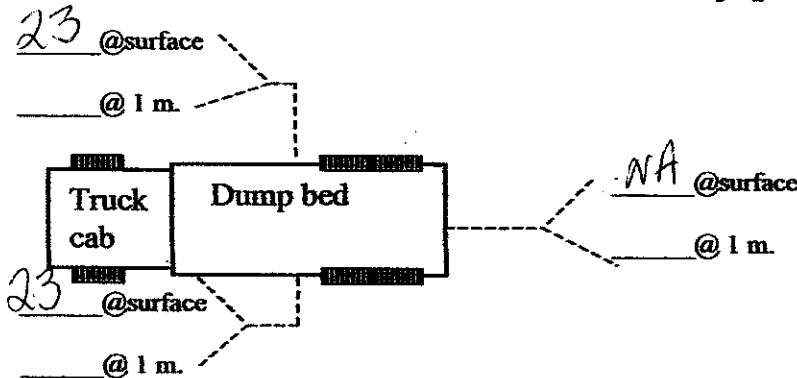
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 1055 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

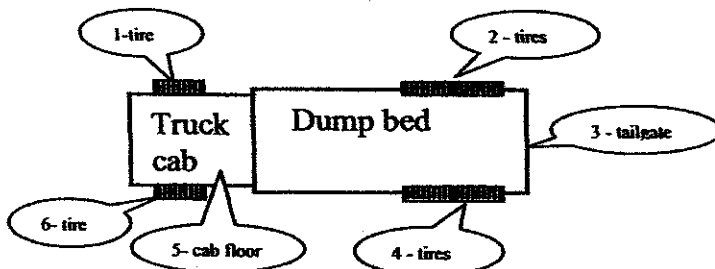
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550896

Please print or type.

| | | | | | | | | |
|--|--|--|--|---|--|-------------------------------|------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3096 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Dinkel Golden, CO 80401 303-273-3096 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address ACCOMPLISHMENT # 100003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO 187 030908 7511915 | | 18. Containers | | 19. Total Quantity 0-Drums | 20. Unit Wt/Vol 0-Gallons | |
| | | | | No. Type | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 7 | Day 5 | Year 17 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Kenneth L. Kenna | | | | Signature | | Month 9 | Day 05 | Year 17 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

519647

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1300 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 529995 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 11:11 am |
| DATE OUT 5 September 2007 | | TIME OUT 11:11 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550856 | ORIGIN | |

00 Gross Weight 50,560.00 lb
Tare Weight 36,580.00 lb
Net Weight 43,780.00 lb 21.89 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.89 | TN | SH-COAT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

96
0550896

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Buck St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Sol | | CO LA7 071200 1511915 | | 19. Total Quantity 7 Yards | |
| b. | | | | 20. Unit Gallons | |
| c. | | | | Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Burkman | | Signature <i>[Signature]</i> | | Month Day Year 7 5 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name James H. Kenna | | Signature <i>[Signature]</i> | | Month Day Year 9 8 04 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

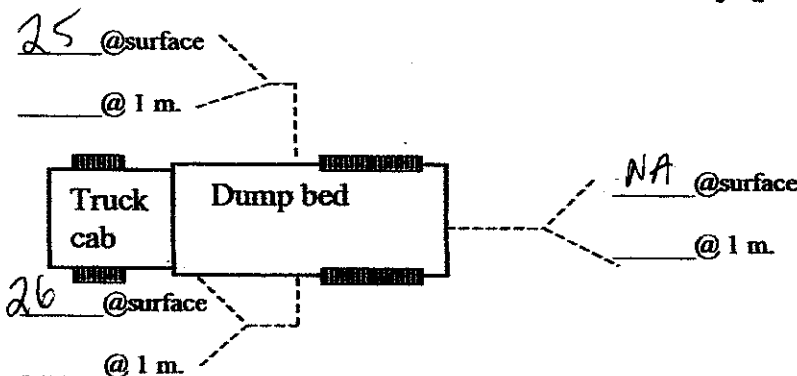
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/06 1104 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

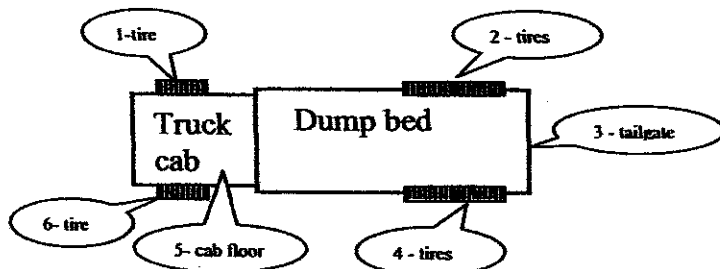
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550897

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 ACCOUNT # 1000000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Horn Oil | | CO 067 030908 1511815 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 7 15 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| MARK PHILLIP | | | | 9 15 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

519555

FOOTHILLS LANDFILL
 8700 HIGHWAY 82
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 590007 | GRID 0000 |
| WEIGHMASTER PS00055 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 11:20 am |
| DATE OUT 5 September 2007 | | TIME OUT 11:20 am |
| VEHICLE Y51171E | | ROLL OFF |
| REFERENCE 0550897 | ORIGIN | |

Gross Weight 82.000.00 lb
 Tare Weight 35.100.00 lb
 Net Weight 46.900.00 lb 23.45 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.45 | TN | SW-COMT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550897

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3968 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3968 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 E Hwy 90 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO 107 070906 1011915 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkman | | Signature | | Month Day Year 1 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature | | Month Day Year 9 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

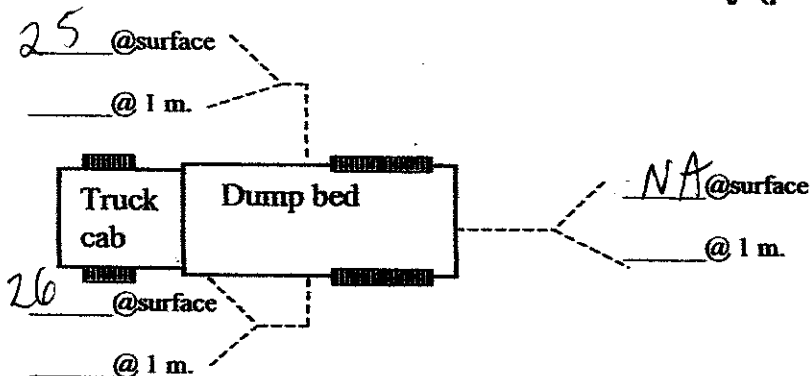
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 1115 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

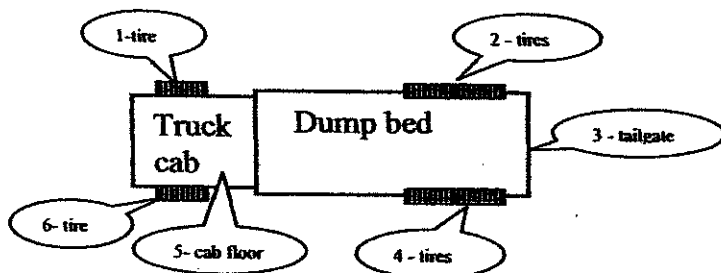
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|-------------------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



24

NON-HAZARDOUS WASTE MANIFEST

0550899

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3096 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3096 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footfalls Landfill 8000 Hwy 20 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non-Sol | | 2016707003 Y511915 | | 19. Total Quantity 184 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brakner | | Signature | | Month Day Year 7 5 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Brakner | | Signature | | Month Day Year 7 5 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8700 HIGHWAY 92
 GOLDEN
 CO
 740400
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 519662

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 590014 | GRID 0000 |
| WEIGHMASTER #800056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 11:32 am |
| DATE OUT 5 September 2007 | | TIME OUT 11:32 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550899 | ORIGIN | |

Gross Weight 33,320.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 46,120.00 lb 23.06 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.06 | TN | SW-CDNT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



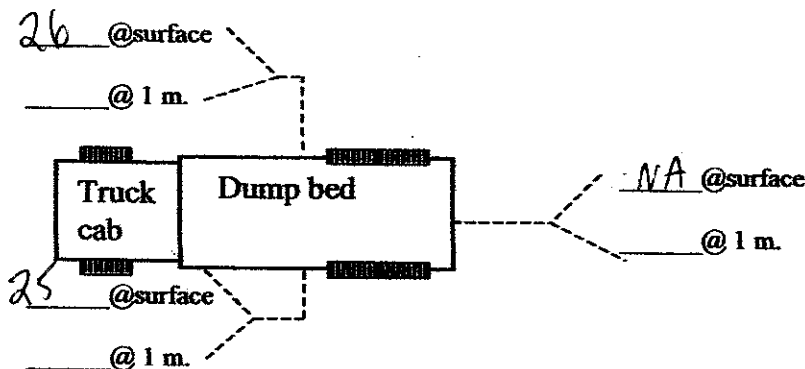
SIGNATURE

[Handwritten Signature]

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/04 1124 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

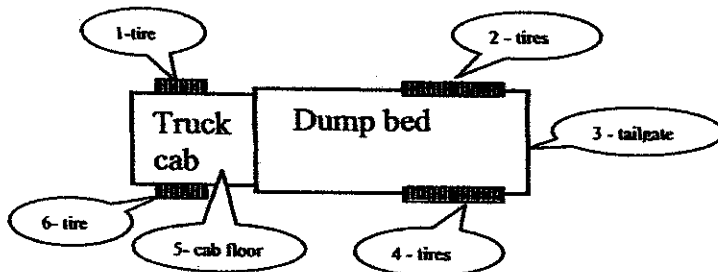
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|--------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 554.0 |



NON-HAZARDOUS WASTE MANIFEST

0550898

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3693 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3693 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name G.C.C. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address T. S. D. Facility 3010 1st St Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Normal Soil | | 17. Allied Waste Approval # and Exp. Date CO L37 070903 1511215 | | 18. Containers No. Type 15 | |
| b. | | | | 19. Total Quantity 0.000000 Y-Yards | |
| c. | | | | 20. Unit Wt/Vol 0.000000 Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. Hume | | Signature | | Month Day Year 11 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve B. Hume | | Signature | | Month Day Year 11 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 590023 | GRID 0000 |
| WEIGHMASTER #500056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 11:42 am |
| DATE OUT 5 September 2007 | | TIME OUT 11:42 am |
| VEHICLE YS11915 | | ROLL OFF |
| REFERENCE 0550898 | ORIGIN | |

Gross Weight 89,980.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 52,280.00 lb 26.14 Tn

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 26.14 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550898

Please print or type

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3890 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Utah St Golden, CO 80401 303-273-3890 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Globe | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 6000 Hwy 92 Golden, CO 80401 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date CO 167 070908 Y611315 | | 18. Containers No. Type | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 19. Total Quantity Y-Yards | | 20. Unit Gallons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 9/5/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 9/5/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

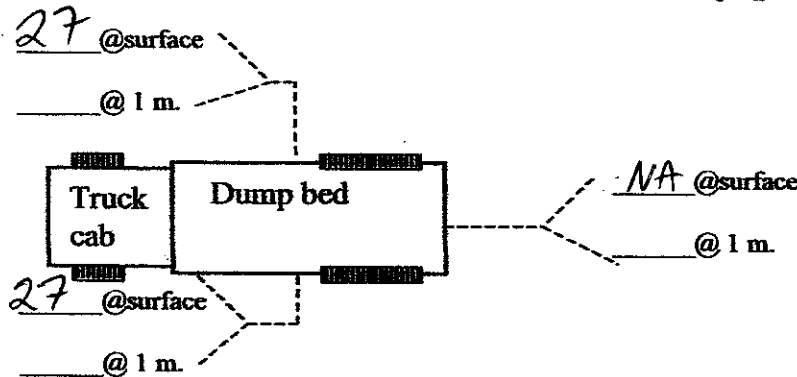
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/04 1130 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

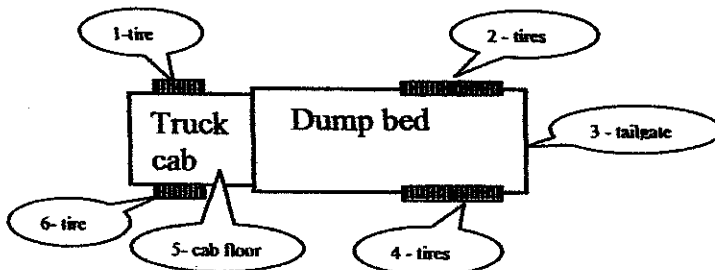
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550900

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 14th St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 W. 14th St. Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 0.000000 20. Unit Tons | |
| a. Normal Soil | | CO 157 070908 1511015 | | 18. Containers No. Type 12 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 11 15 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519674

FOOTHILLS LANDFILL
 2900 HIGHWAY 92
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 590024 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 11:47 am |
| DATE OUT 5 September 2007 | | TIME OUT 11:47 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0530900 | ORIGIN | |

Gross Weight 86.400.00 lb
 Tare Weight 36.540.00 lb
 Net Weight 49.860.00 lb 24.93 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.93 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LI | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0550900

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 14th St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 W. 14th St Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Norm Soil | | 00107 070908 1511915 | | 18. Containers No. Type 18 4 19. Total Quantity 0 Drums 7 Yards 20. Unit Wt/Vol Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brakman | | Signature | | Month Day Year 9/5/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 09/05/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 9/5/07 | |

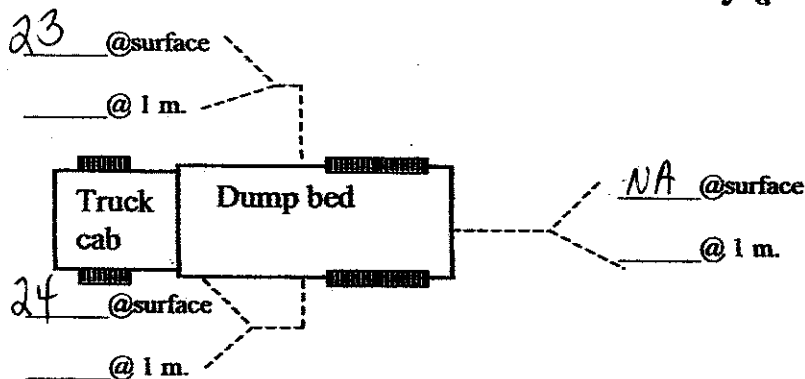
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 1143 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

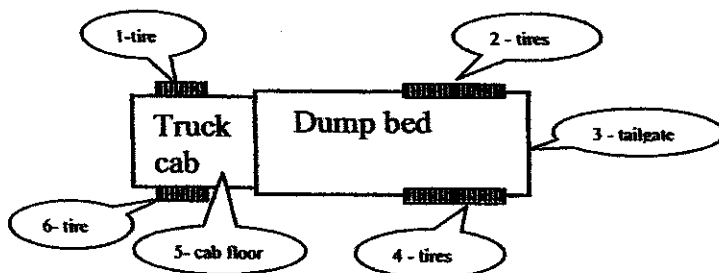
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550901

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone (303) 273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone (303) 273-3998 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Fossil Fuel Landfill 6900 Hwy 90 Golden, CO 80401 (AUXiliary # 100000 - Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Heavy Soil | | 00107 070008 Y011915 | | | | 0-Drams | 0-Gallons | |
| b. | | | | | | Y-Yards | T-Tons | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brannen | | | | Signature | | Month 7 | Day 5 | Year 04 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Maria Lopez | | | | Signature | | Month 7 | Day 2 | Year 04 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

519680

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 390032 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 12:03 PM |
| DATE OUT 5 September 2007 | | TIME OUT 12:03 PM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0530901 | ORIGIN | |

Gross Weight 86,600.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 50,900.00 lb 25.45 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 25.45 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550901

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address T. S. D. Facility 8000 Hwy 90 Golden, CO (Allied Waste # 000000) (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | 001870700001511815 | | 19. Total Quantity D-Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature <i>[Signature]</i> | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Hector Lopez | | Signature <i>[Signature]</i> | | Month Day Year 07 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

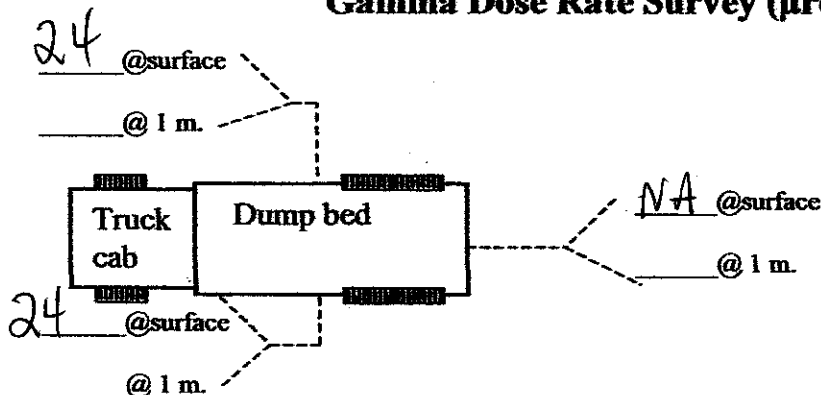
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 1210 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

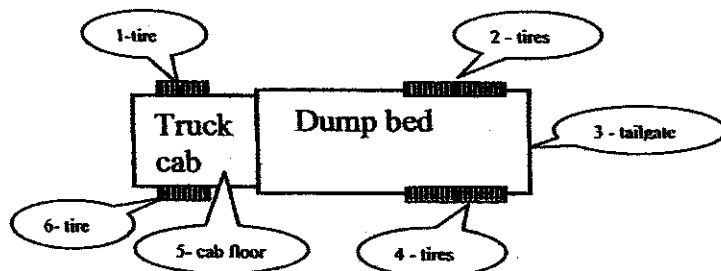
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

961
0550902

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 12th St. Golden, CO 80401 303-273-3906 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3906 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 W. 12th St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | 20167-073906 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature [Signature] | | Month Day Year 1 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Name] | | Signature [Signature] | | Month Day Year 7 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

313854

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 590047 | GRID 0000 |
| WEIGHMASTER BSC0056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 12:27 pm |
| DATE OUT 5 September 2007 | | TIME OUT 12:27 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550902 | ORIGIN | |

Gross Weight 71,240.00 lb
Tare Weight 34,400.00 lb
Net Weight 36,840.00 lb 18.43 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.43 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



0550902

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 19. Total Quantity Y-Yards | | 20. Unit T-Tons | |
| b. | | c. | | d. | |
| 21. Additional Descriptions for Materials Listed Above | | 22. Special Handling Instructions and Additional Information | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name Steve Brakman | | Signature [Signature] | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature [Signature] | | Month Day Year 7 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |

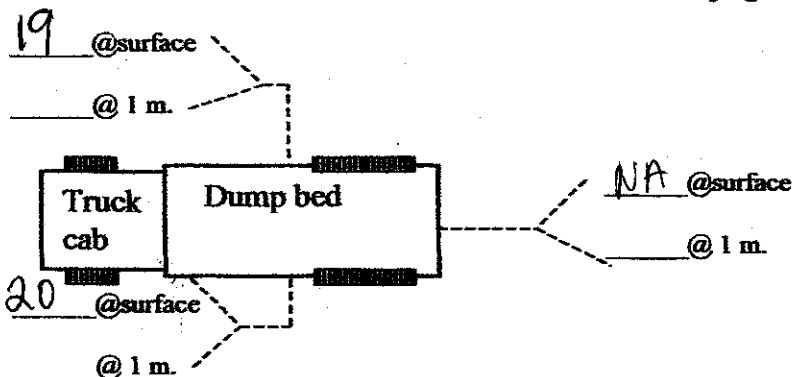
TRANSPORTER #1

COM000032

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 1237 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

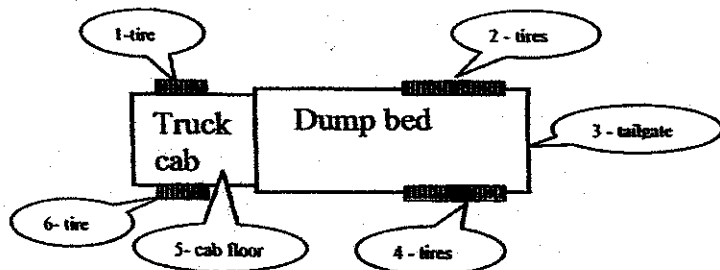
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0551903

GENERATOR

TRANSPORTER

US/D FACILITY

519712

FOOTHILLS LANDFILL
 8900 HIGHWAY 70
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 570046 | GRID 0000 |
| WEIGHMASTER 5500056 Barbers Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 12:56 pm |
| DATE OUT 5 September 2007 | | TIME OUT 12:56 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550903 | ORIGIN | |

Gross Weight 56,180.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 19,200.00 lb 9.60 TH

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|------|------|-------------------|------|-----------|-----|-------|
| 9.60 | TH | SH-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550903

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3898 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 1800 Hwy 93 Golden, CO 80401 (Allied Waste # 0550903 (Colorado School of Mines)) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Num: Soil | | CO LPT 070903 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9 5 03 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 1 1 04 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

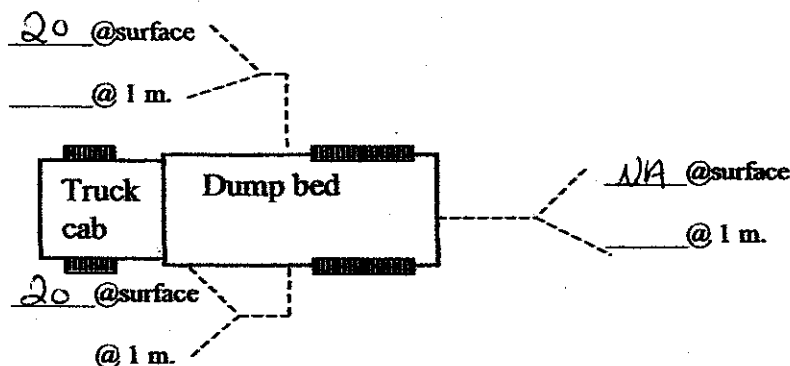
TRANSPORTER #1

COM000093

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1247 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD004

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

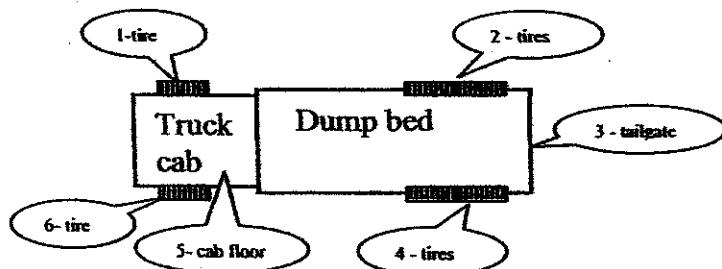
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550904

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 6500 Hwy 90 Golden, CO 80401 (Allied Waste's Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | Wt/Vol | |
| | | | | Drums | |
| | | | | C-Containers | |
| a. Norm Soil | | CO 157 07803 1511915 | | Y-Yards | |
| b. | | | | Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Buchanan | | | | 9 5 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Sanjiv Vargos | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

519723

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|-------------------------------------|--|------------------|---------------------|--------------|--|
| SITE 01 | | TICKET 590074 | | GRID 0000 | |
| WEIGHMASTER 6800056 Barbara Jo S | | | | | |
| DATE IN 5 September 2007 | | | TIME IN 1:06 pm | | |
| DATE OUT 5 September 2007 | | | TIME OUT 1:06 pm | | |
| VEHICLE YE11915 | | | ROLL OFF | | |
| REFERENCE 0530904 | | ORIGIN | | | |

Gross Weight 50,400.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 14,760.00 lb 7.38 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|------|------|--------------------|------|-----------|-----|-------|
| 7.38 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL REDCOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature] 9-5-07



NON-HAZARDOUS WASTE MANIFEST

0550904

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 8020 Hwy 80 Golden, CO 80401 (ACCOUNT # 1000003 / Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date CO 197 07/8008 Y511915 | | 18. Containers No. Type | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 19. Total Quantity 0 Drums Y-Yards | | 20. Unit Wt/Vol 0 Gallons Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Smith | | Signature | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vazquez | | Signature | | Month Day Year 7 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

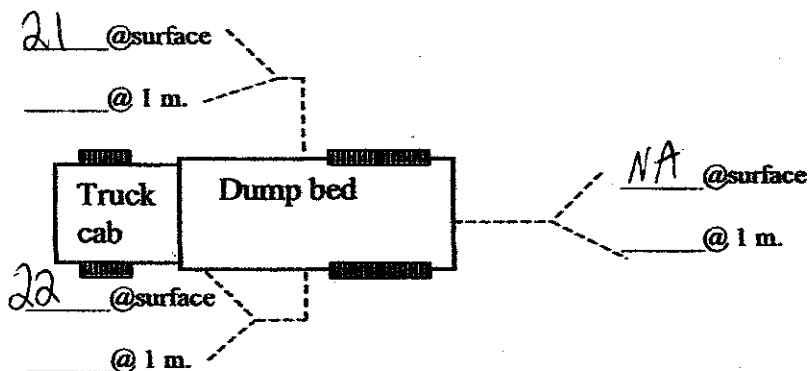
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1259 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

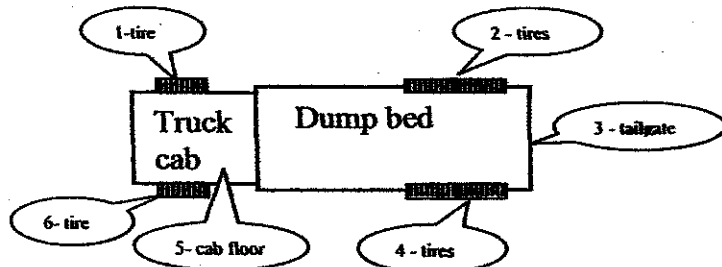
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 1220 | | | | 12200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



96

NON-HAZARDOUS WASTE MANIFEST

0550905

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Prohibit Canyon Rocky Hwy 93 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Ref | | CO LA7070003 Y511915 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. [Signature] | | Signature [Signature] | | Month Day Year 1 5 05 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 9 15 05 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

510732

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y311913

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590054 | GRID 0000 |
| WEIGHMASTER 0000056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 1412 PM |
| DATE OUT 5 September 2007 | | TIME OUT 1418 PM |
| VEHICLE Y311913 | | ROLL OFF |
| REFERENCE 0530905 | ORIGIN | |

00 Gross Weight 60,140.00 lb
 Tare Weight 36,580.00 lb Inbound -
 Net Weight 23,560.00 lb 11.75 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 11.75 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550905

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3008 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3008 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontline Landfill 6300 Hwy 20 Golden, CO ACCOUNT # 800803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67070002 1511315 | | 19. Total Quantity 0 Drums 0 Gallons 0 Yards 0 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkley | | Signature | | Month Day Year 7 5 24 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Barron | | Signature | | Month Day Year 9 25 24 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

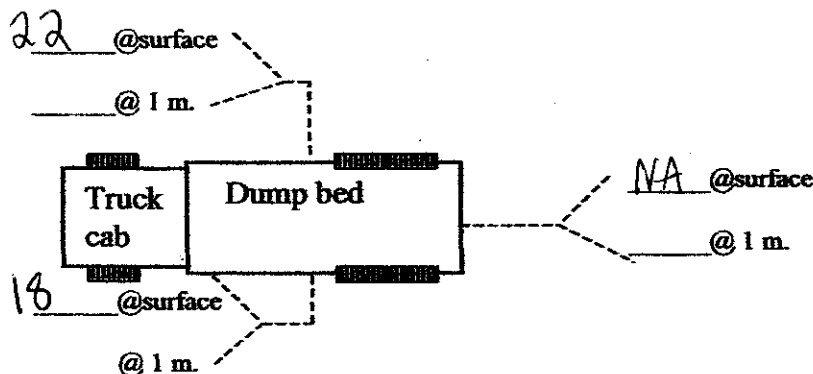
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 1312 Surveyed by: J. Mattson C. Hicks

Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

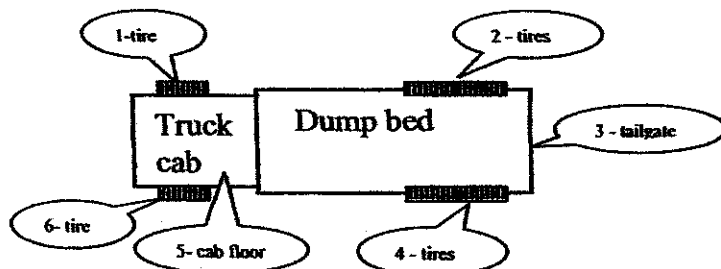
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550906

23

Please print or type

| | | | | | |
|--|--|---|---|--------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3098 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3098 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 (ACCOUNT # 0550906 Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Normal Soil | | CO 1-17 07/09/03 Y511015 | | 19. Total Quantity 12 Drums | |
| b. | | | | 20. Unit Wt/Vol 5 Gallons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature <i>[Signature]</i> | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Pielan | | Signature <i>[Signature]</i> | | Month Day Year 9 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519740

FOOTHILLS LANDFILL
 2700 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590095 | GRID 0000 |
| WEIGHMASTER 8300056 Barbara Jo E | | |
| DATE IN 5 September 2007 | | TIME IN 1:29 PM |
| DATE OUT 5 September 2007 | | TIME OUT 1:29 PM |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0530906 | ORIGIN | |

Gross Weight 63,530.00 lb
 Tare Weight 38,100.00 lb
 Net Weight 25,430.00 lb 14.24 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 14.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





23

NON-HAZARDOUS WASTE MANIFEST

0550906

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address T/S/D Facility 6900 Hwy 10 Golden, CO ACCOUNT # 181678 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non Soil | | 00187070006 Y511915 | | 18 18 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0.000000 | | | | | |
| 20. Unit Wt/Vol 0.000000 Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature [Signature] | | Month Day Year 9 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Pielan | | Signature [Signature] | | Month Day Year 9 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 9 5 07 | |

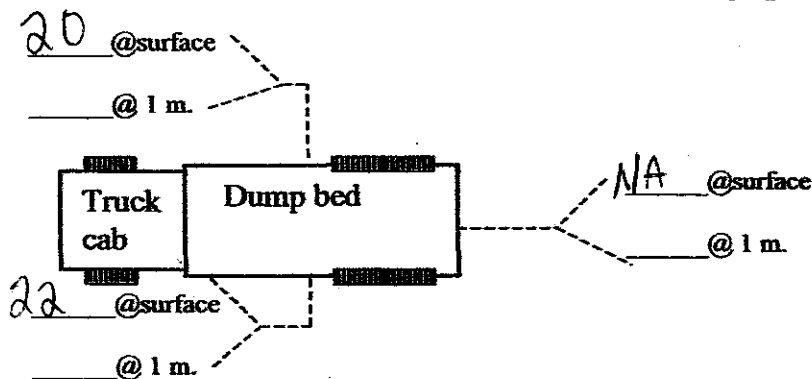
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1326 Surveyed by: J. Mattson G. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

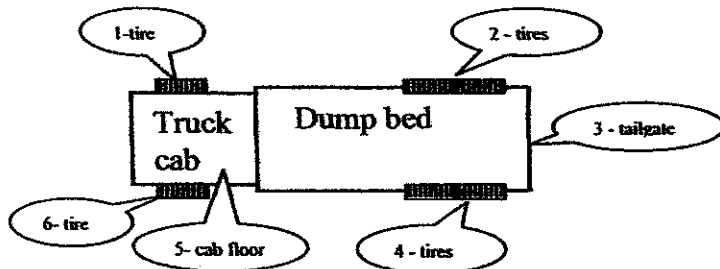
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|--------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 554.0 |

FOOTHILLS LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
80401
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

24 513731

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 550106 | GRID 0000 |
| WEIGHMASTER 8000036 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 1:48 pm |
| DATE OUT 5 September 2007 | | TIME OUT 1:48 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0550707 | ORIGIN | |

Gross Weight 40.520.00 lb
Tare Weight 37.200.00 lb
Net Weight 23.320.00 lb 11.66 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 11.66 | TN | SW-COFT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550907

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|--------------------------------------|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3090 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3090 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name JOE GRIFFIN TRUCKING | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 5500 Hwy 50 Golden, CO ACCOUNT # 54743 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0 Drums 0 Cans | 20. Unit Wt/Vol |
| | | | | No. | Type | | |
| a. Num Soil | | 00167070903 Y51181E | | 18 | Y | Y-Yards | Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Bickman | | | | Signature | | Month Day Year 12/3/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | Month Day Year 09/05/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

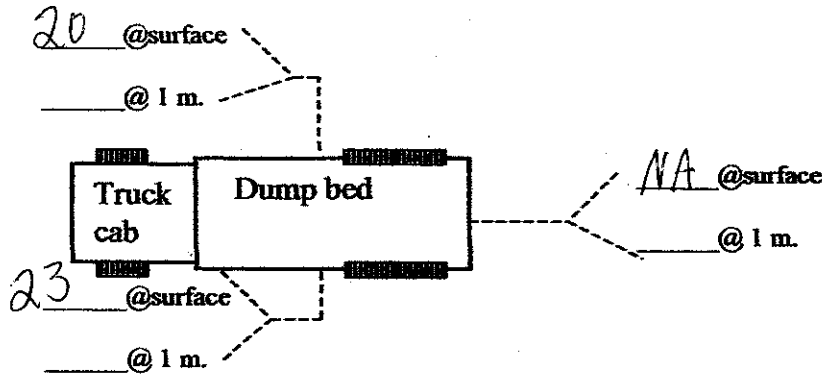
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1337 Surveyed by: J. Mattson C. Hicks

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10 mrem/hr, survey is complete.)

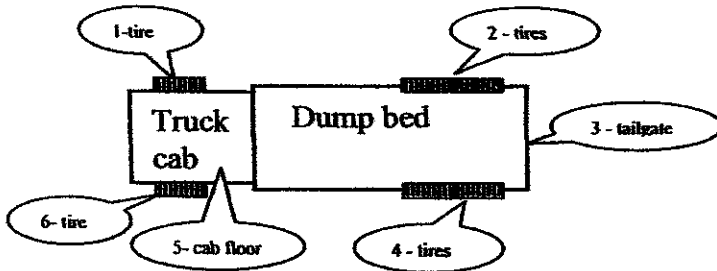
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550908

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3398 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3398 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name GRIW | | 8. US EPA ID Number #112 | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 ACCOUNT # 991000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | CO167 070902 VS11915 | | 19. Total Quantity 18 Drums | |
| b. | | | | 20. Unit Wt/Vol 7 Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannen | | Signature | | Month Day Year 7 5 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John J. Olson | | Signature | | Month Day Year 7 5 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

313758

FOOTHILL LANDFILL
 8940 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 390111 | GRID 0000 |
| WEIGHMASTER AS00036 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 1:57 pm |
| DATE OUT 5 September 2007 | | TIME OUT 1:57 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550708 | ORIGIN | |

Gross Weight 54,660.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 16,960.00 lb 8.48 TR

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|------|------|-------------------|------|-----------|-----|-------|
| 8.48 | TR | 50-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550908

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3000 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name G-M-W-C #112 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8300 Hwy 93 Golden, CO ACCOUNT # 111111 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO 167 070000 7/1/1915 | | 18 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month 7 Day 5 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sean J. Olson | | | | Signature [Signature] Month 7 Day 5 Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

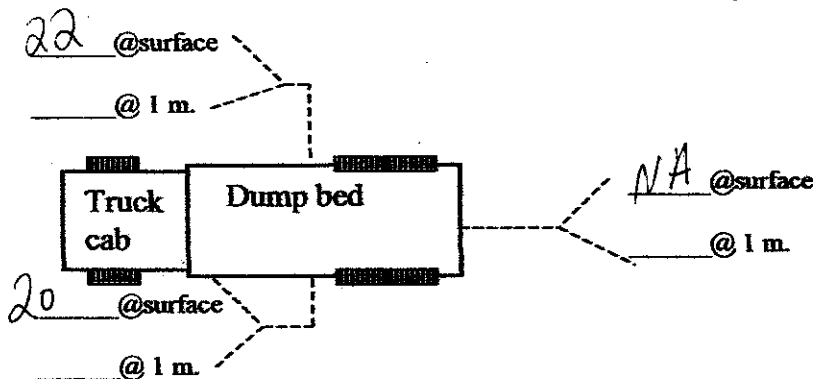
TRANSPORTER #1

601000038

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1352 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

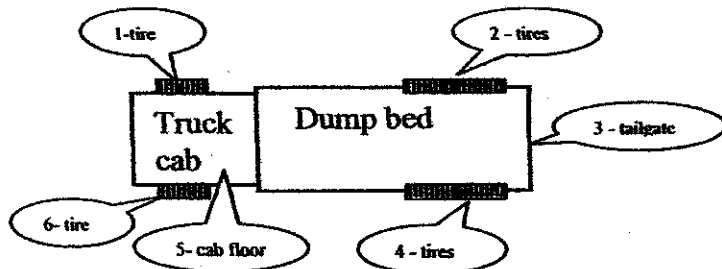
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-------------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 554.0 |

519781

FOOTHILLS LANDFILL
2900 HIGHWAY 92
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590117 | GRID 0000 |
| WEIGHMASTER D500766 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 2:12 pm |
| DATE OUT 5 September 2007 | | TIME OUT 2:12 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550909 | ORIGIN | |

Gross Weight 48,540.00 lb
Tare Weight 36,540.00 lb
Net Weight 12,000.00 lb 6.00 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|------|------|-------------------|------|-----------|-----|-------|
| 6.00 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550909

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|-----------------------------|---------------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-773-3906 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3906 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Topshill Landfill 2800 Hwy 60 Golden, CO ACCOUNT # 999666 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Drums | 20. Unit Gallons | |
| | | | | No. | Type | | | |
| a. Heavy Soil | | CO 167470908 YS11315 | | 18 | 4 | 7-Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Lickman | | | | Signature | | Month | Day | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name Chuck Foy | | | | Signature | | 09 | 05 | 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

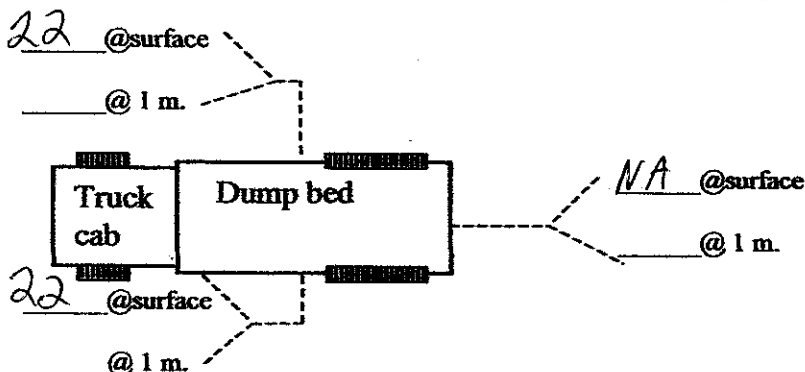
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1407 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

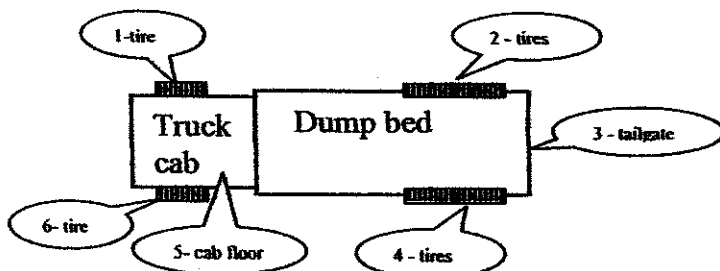
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

13
0550910

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Fort Collins Landfill 4000 Hwy 66 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO 167 670306 YS11316 | | 18 Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0.000000 | | | | | |
| 20. Unit Wt/Vol 0.000000 | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brakman | | Signature | | Month Day Year 11 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Collazo Lopez | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

518773

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE1191E

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 870129 | GRID 0000 |
| WEIGHMASTER 8000056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 2:30 PM |
| DATE OUT 5 September 2007 | | TIME OUT 2:30 pm |
| VEHICLE YE1191E | | ROLL OFF |
| REFERENCE 05E0910 | ORIGIN | |

GC Gross Weight 37,260.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 21,960.00 lb 10.98 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 10.98 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550910

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 ACCOUNT # 50000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non Soil | | CO 187 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | Signature | | Month Day Year 11 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Collazo Lopez | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

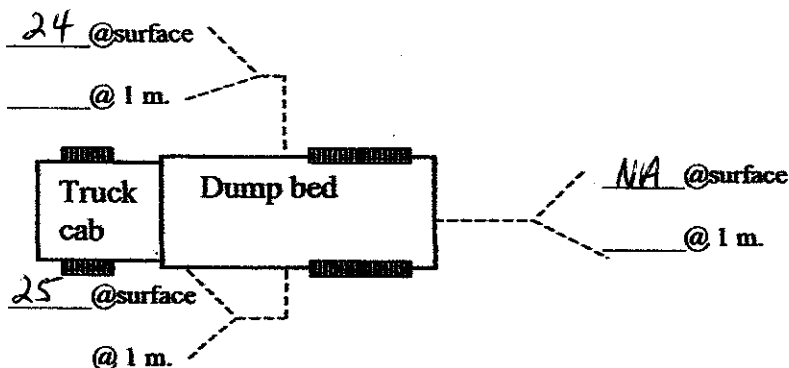
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 1422 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

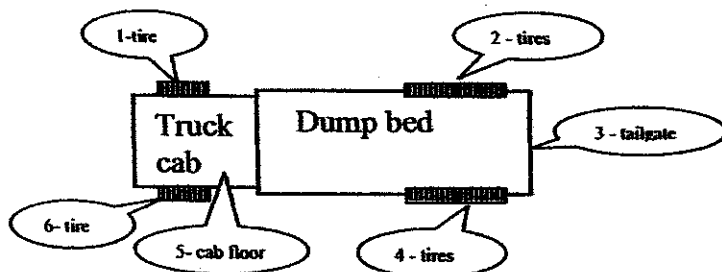
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550911

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-275-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Bird St Golden, CO 80401 303-275-3898 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Fertile Landfill 6500 Hwy 50 Golden, CO 80401 (Adjacent to Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non Sol | | CO AW 070008 YS11015 | | 19. Total Quantity D Drums Y-Yards 20. Unit G-Gallons T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Beckman | | | | 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| John J. M. M. M. | | | | 7 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

519730

FOOTHILLS LANDFILL
8700 HIGHWAY 92
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590130 | GRID 0000 |
| WEIGHMASTER 2500056 Bartack Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 2:40 pm |
| DATE OUT 5 September 2007 | | TIME OUT 2:40 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0520711 | ORIGIN | |

00 Gross Weight 35,620.00 lb
Tare Weight 34,400.00 lb
Net Weight 21,220.00 lb 10.61 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 10.61 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0550911

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 15001 Hwy 60 Golden, CO 80401 ACCOUNT # 150013 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CC 187170008 Y511915 | | 19. Total Quantity No. Type 18 Drums 18 Yards 20. Unit Wt/Vol Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 7 5 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Humberto Martinez | | Signature | | Month Day Year 7 5 04 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed Name | | Signature | | Month Day Year 7 5 04 | |

TRANSPORTER #1

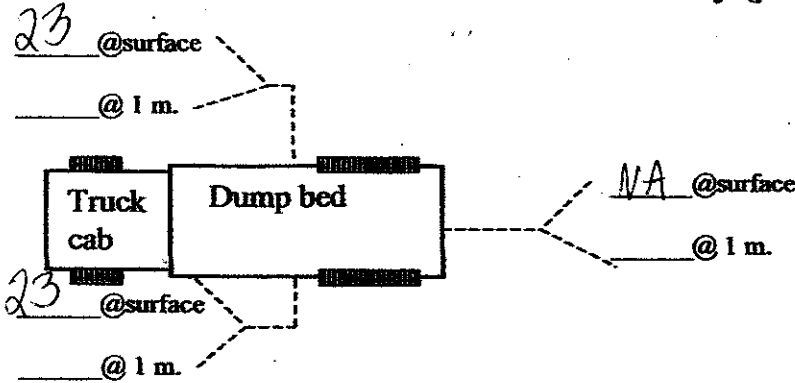
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1437 Surveyed by: J. Mattson C. Hicks

Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

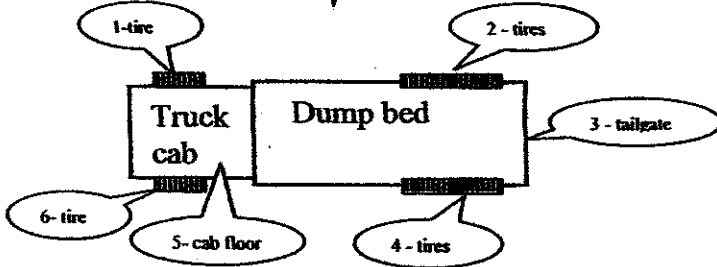
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550912

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Wiggins St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address P.O. Box 1000 3500 Hwy 93 Golden, CO ACCOUNT # 0550912 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 147 070900 / 5/1/95 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | 0 Drums | 0 Drums | |
| | | | | | | 7 Yards | 1 Ton | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month 7 | Day 5 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month 1 | Day 1 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033



NON-HAZARDOUS WASTE MANIFEST

0550912

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3886 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3886 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 ACCOUNT # 549403 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date CO 051170000 1511915 | | 18. Containers No. Type 18 Y-Yards | |
| 16. Waste Shipping Name and Description a. Non-Hazardous b. c. d. | | 19. Total Quantity D-Drums Y-Yards | | 20. Unit Wt/Vol G-Gallons T-Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkman | | Signature | | Month Day Year 11 15 07 | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike | | Signature | | Month Day Year 11 15 07 | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 11 15 07 | |

TRANSPORTER #1

COM000033

519788

FOOTHILLS LANDFILL
 8700 HIGHWAY 40
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y31191F

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590145 | GRID 0000 |
| WEIGHMASTER 6500036 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 2:53 pm |
| DATE OUT 5 September 2007 | | TIME OUT 2:53 pm |
| VEHICLE Y31191F | | ROLL OFF |
| REFERENCE 0530912 | ORIGIN | |

Gross Weight 78.320.00 lb
 Tare Weight 36.980.00 lb Inbound -
 Net Weight 41.340.00 lb 20.67 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.67 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



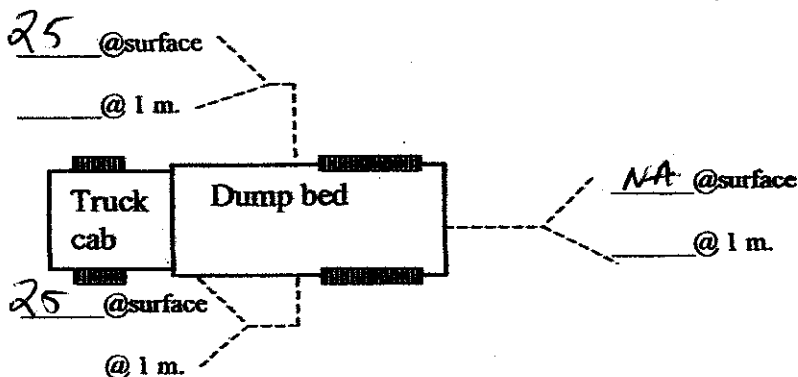
ALLIED WASTE

SIGNATURE

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 1445 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

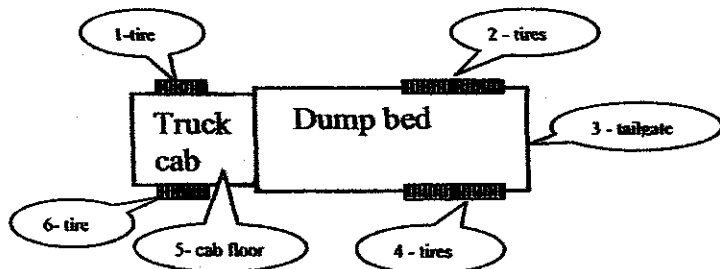
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550919

Please print or type:

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Portlandia Landfill 1800 Hwy 10 Golden, CO 80701 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L07 070908 YS11915 | | D Drums G Gallons | |
| b. | | | | Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brakman | | | | 12 2 03 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Scott / 1990 V01905 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

310502

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7E11915

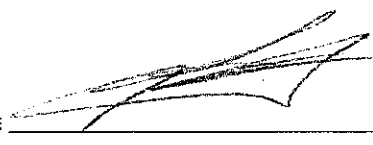
| | | |
|-------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590150 | GRID 0000 |
| WEIGHMASTER R000080 GIMA C | | |
| DATE IN 5 September 2007 | | TIME IN 3:17 pm |
| DATE OUT 5 September 2007 | | TIME OUT 3:19 pm |
| VEHICLE 7E11915 | | ROLL OFF |
| REFERENCE 0550919 | ORIGIN | |

Gross Weight 94,000.00 lb
 Tare Weight 35,640.00 lb Inbound -
 Net Weight 48,360.00 lb 24.18 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.18 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE  9-5-07



NON-HAZARDOUS WASTE MANIFEST

0550919

Please print or type

| | | | | | | | | |
|--|--|---|---|----------------------------|-------|--------------------|-----------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3968 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3968 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Footprints 1 and 15A 8000 Hwy 90 Golden, CO 80401 # 800010 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | B Drums | G Gallons | |
| a. Norm Soil | | CO 167 070398 / 511915 | | 18 | Yards | Tons | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Stone Breaker | | | | Signature | | Month | Day | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name Scott Vargas | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

TRANSPORTER #1

COM000038

9-5-07 Pile B

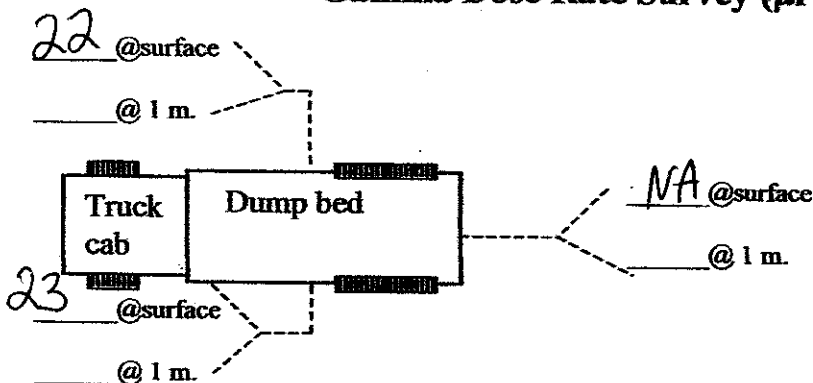
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|--------|---------|----------|----------------------------|------|
| Grieve 23 | 9-5-07 | 0700 | 0717 | 18 cy | 81.0 |
| Grieve 24 | - | 0700 | 0730 | | 80.6 |
| Grieve 12 | - | 0700 | 0741 | | 81.5 |
| Grieve 8 | - | 0700 | 0751 | | 84.0 |
| Collazo 13 | - | 0715 | 0755 | | 82.8 |
| Marquez 961 | - | 0730 | 0802 | | 81.9 |
| Ruiz 95 | - | 0730 | 0808 | | 78.7 |
| JD 04 | - | 0730 | 0816 | | 77.1 |
| Marquez 96 | - | 0730 | 0822 | | 75.4 |
| Grieve 23 | - | 0820 | 0839 | | 81.8 |
| Grieve 24 | - | 0830 | 0847 | | 84.7 |
| Grieve 12 | - | 0850 | 0859 | | 85.2 |
| Grieve 8 | - | 0855 | 0905 | | 85.4 |
| Collazo 13 | - | 0905 | 0914 | | 81.9 |
| Marquez 961 | - | 0914 | 0920 | | 79.3 |
| Ruiz 95 | - | 0920 | 0926 | | 78.3 |
| JD 04 | - | 0925 | 0932 | | 77.1 |
| Marquez 96 | - | 0932 | 0939 | | 80.7 |
| Grieve 23 | - | 0939 | 0945 | | 87 |
| Grieve 24 | - | 0945 | 0955 | | 83.7 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0717 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

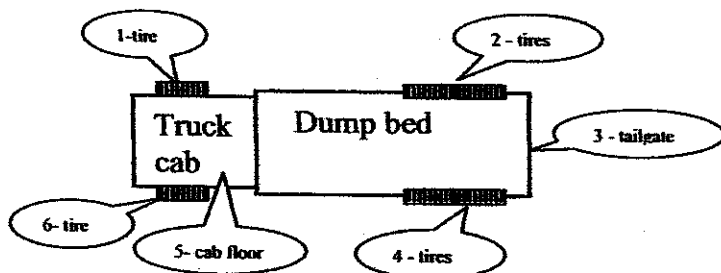
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

73
0550960

Please print or type.

| | | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|--|--------------------|--------------------------|----------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address 1501 W. 1st St. Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3906 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 8000 Hwy 93 Golden, CO 80401 # 0550960 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | | 17. Allied Waste Approval # and Exp. Date CO 167 07/01/05 - 5/1/1916 | | 18. Containers | | 19. Total Quantity | | 20. Unit | |
| | | | | | No. Type | | Drums Gallons | | Wt/Vol | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | | | Month Day Year 7 5 07 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Mark Phelan | | | | Signature | | | | Month Day Year 9 5 07 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | |

GENERATOR'S COPY

COM000033

519512

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 559663 | GRID 0000 |
| WEIGHMASTER | | |
| RECORDING DATA C | | |
| DATE IN 5 September 2007 | | TIME IN 7:05 am |
| DATE OUT 5 September 2007 | | TIME OUT 7:05 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550960 | ORIGIN | |

Gross Weight 81,020.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 45,920.00 lb 22.96 Tn

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.96 | TN | SH-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550900

Please print or type.

| | | | | | |
|--|--|--------------------------|---|---|--------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Grant St Golden, CO 80401 303-273-3098 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 8000 Hwy 51 Golden, CO 80401-3098 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| a. Non-Hazardous | | | CO 187 07/000 YS 11915 | | 19. Total Quantity 11 Yards |
| b. | | | | | 20. Unit WT/Vol Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | Signature | | Month Day Year 7 5 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | | Signature | | Month Day Year 9 5 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year 7 |

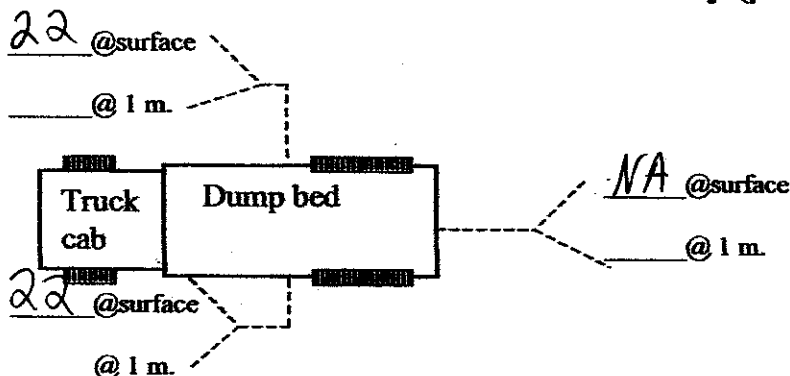
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0730 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

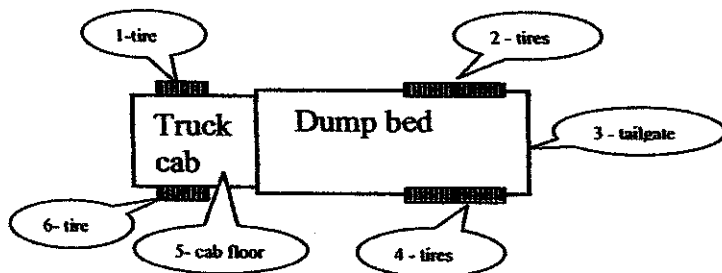
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 22200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24

510513

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 559667 | GRID 0000 |
| WEIGHMASTER | | |
| SC000050 BINA C | | |
| DATE IN 7 September 2007 | | TIME IN 7:48 am |
| DATE OUT 8 September 2007 | | TIME OUT 7:48 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550961 | ORIGIN | |

Gross Weight 80,500.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 43,400.00 lb 21.70 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.70 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550961

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3666 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3666 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Joe Gerrie Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Private Land Box 111111 Golden, CO 80401 # 000000 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Worm Soil | | CO LW 075087511915 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 12 07 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ker Shannon | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

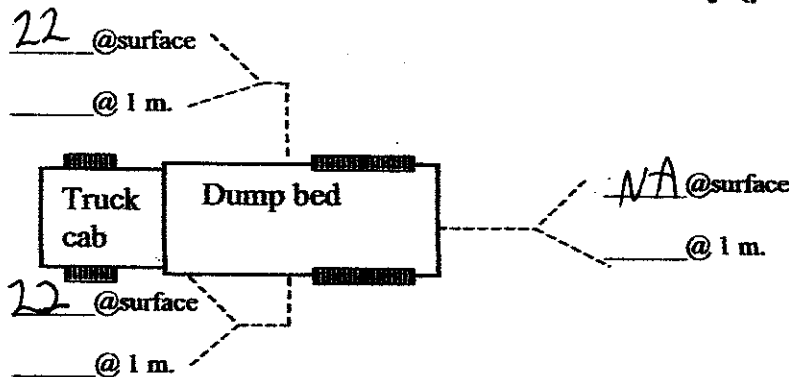
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0741 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

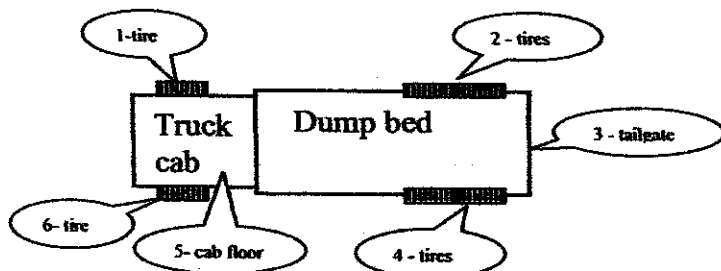
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 5220 | | | | 52200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550992

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) University of Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Greene Trucking, H/2. | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address 89701 Hwy 90 Golden, CO 80401 (University of Colorado School of Mines) | | 14. US EPA ID Number | |
| 15. Facility's Phone | | 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date 07167 070900 1511915 | |
| 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| No. Type | | D-Drums G-Gallons | | L-Tons | |
| 19 | | 7-Yards | | 1-Tons | |
| b. | | c. | | d. | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Zeman | | Signature | | Month Day Year 4 5 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Zeman | | Signature | | Month Day Year 4 5 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

519512 ✓

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 555073 | GRID 0000 |
| WEIGHMASTER | | |
| RC00080 GINA C | | |
| DATE IN 5 September 2007 | | TIME IN 7:55 AM |
| DATE OUT 5 September 2007 | | TIME OUT 7:58 AM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550962 | ORIGIN | |

Gross Weight 81,520.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 43,820.00 lb 21.91 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.91 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0550982

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1575 Illinois St Golden, CO 80401 303-273-3993 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3993 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Greene Trucking #112 | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1575 Illinois St Golden, CO 80401 ACCOUNT # 112123 - Colorado School of Mines | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Mine Soil | | CO L67 070908 Y511S15 | | 11 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 8 5 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 8 5 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

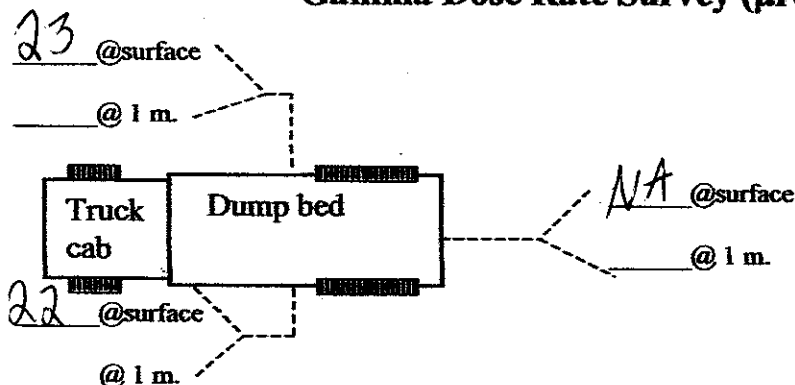
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0751 Surveyed by: J. Mattson C. Hicks

Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

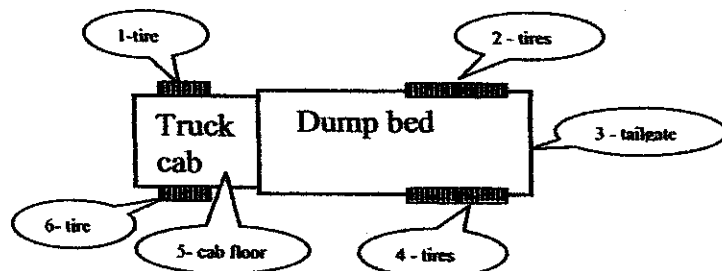
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



8

NON-HAZARDOUS WASTE MANIFEST

0550963

Please print or type.

| | | | | | | | | | | | |
|--|--|--|---|----------------------------|--|--------------------|--|-----------------|--|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3996 | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Mountain XXXX Hwy 93 Golden, CO 80401 #100000 (Contract School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Non Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 167 070904 Y511015 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | No. Type | | Drums Gallons | | Gallons | | | |
| | | | | 18 4 | | Y-Yards | | Tons | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 7 | | Day 5 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature | | Month 09 | | Day 05 | | Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |

GENERATOR'S COPY

COM000033

519527

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|--------------------------------|------------------|---------------------|
| SITE 01 | TICKET 889878 | GRID 0000 |
| WEIGHMASTER AC000080 G1HA C | | |
| DATE IN 5 September 2007 | | TIME IN 8:07 am |
| DATE OUT 5 September 2007 | | TIME OUT 8:07 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 880963 | ORIGIN | |

Gross Weight 84,000.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 47,460.00 lb 23.75 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.75 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



8

NON-HAZARDOUS WASTE MANIFEST

0550963

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 90 Golden, CO ACCOUNT # 860603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | D Drums G Gallons | |
| a. Norm Soil | | CO L67 070900 Y511915 | | 18 Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 9 | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

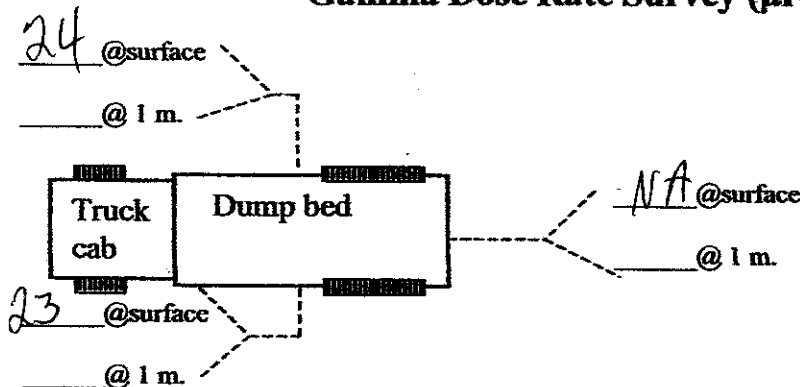
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0755 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

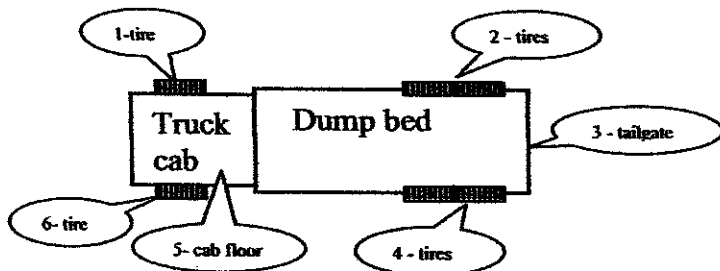
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550964

13

Please print or type.

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3888 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3888 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Normal Soil | | CO1670700081211915 | | 19. Total Quantity 0-Drums 0-Gallons | |
| b. | | | | 20. Unit Wt/Vol Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Jackson | | | | Signature [Signature] Month 7 Day 5 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Alvarado Lopez | | | | Signature [Signature] Month 07 Day 05 Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

513531

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO

980602
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 509802 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 5 September 2007 | | TIME IN 8:13 am |
| DATE OUT 5 September 2007 | | TIME OUT 8:13 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 550764 | ORIGIN | |

Gross Weight 52.840.00 lb
Tare Weight 35.700.00 lb
Net Weight 47.140.00 lb 23.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0550964

13

Please print or type

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1600 Illinois St Golden, CO ACCOUNTS DEPT (Colorado School of Mines) | | 14. US EPA ID Number | |
| 15. Facility's Phone | | 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | |
| 18. Containers | | 19. Total Quantity | | 20. Unit | |
| No. | | Type | | Wt/Vol | |
| 18 | | Y-Yards | | Tons | |
| a. | | b. | | c. | |
| d. | | e. | | f. | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brannon | | [Signature] | | 7/5/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Nabeel Allana Lopez | | [Signature] | | 6/10/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

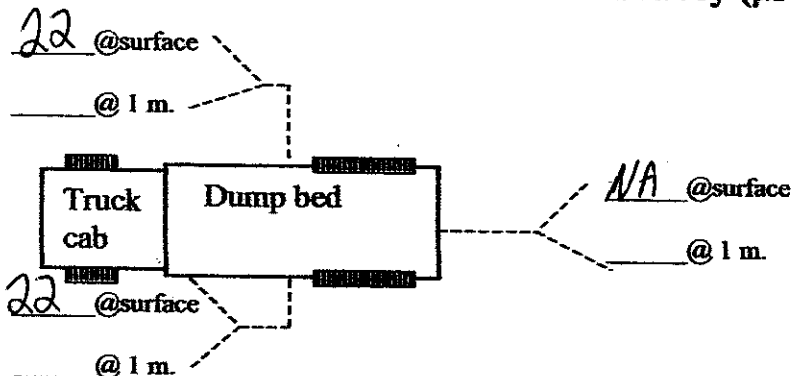
TRANSPORTER #1

COM000038

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/06 0802 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

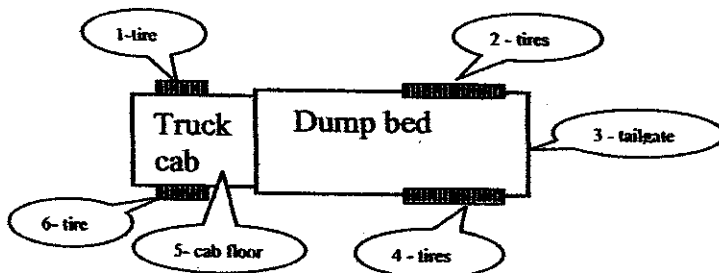
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550965

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1570 Elbert St. Golden, CO 80401 303-273-3956 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3956 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8600 Hwy 26 Golden, CO 80401 ACCOUNT # 990000 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date 301170700017511615 | | 18. Containers No. Type | |
| 16. Waste Shipping Name and Description a. Burn Soil | | 19. Total Quantity 7 Yards | | 20. Unit Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] Month Day Year 1 1 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 1 1 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year 1 1 97 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year 1 1 97 | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519536

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|------------------------------|--|------------------|--------|---------------------|--|
| SITE 01 | | TICKET 589587 | | GRID 0000 | |
| WEIGHMASTER | | | | | |
| DATE IN 5 September 2007 | | | | TIME IN 3:25 am | |
| DATE OUT 5 September 2007 | | | | TIME OUT 3:25 am | |
| VEHICLE Y511915 | | | | ROLL OFF | |
| REFERENCE 055096E | | | ORIGIN | | |

Gross Weight 81.850.00 lb
 Tare Weight 34.400.00 lb
 Net Weight 47.450.00 lb 23.74 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.74 | TN | SH-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550965

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-0996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2900 Hwy 93 Golden, CO 80401 (Adjacent to 9600 St. Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Home Soil | | CO 017 070003 (5/1/95) | | 19. Total Quantity D-Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Berkman | | | | 1 1 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Dennis Miller | | | | 1 1 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| John Smith | | | | 1 1 97 | |

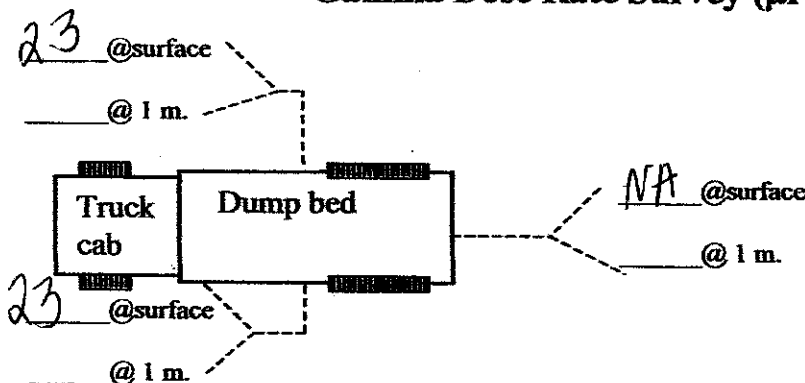
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/06 0808 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

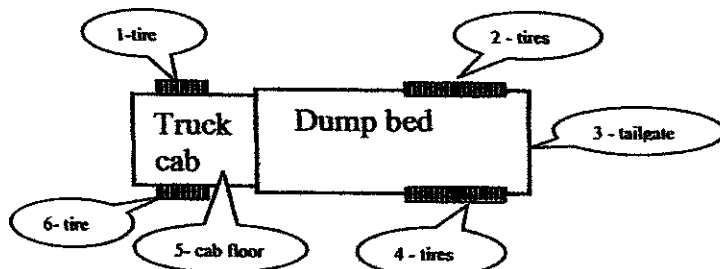
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



95

NON-HAZARDOUS WASTE MANIFEST

0550988

Please print or type.

| | | | | | | | | |
|--|--|--|--|---|------|-------------------------------|-----------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Fountain Creek 8000 N. 1st St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Hem. Soil | | 17. Allied Waste Approval # and Exp. Date CO 157 070508 YS14915 | | 18. Containers | | 19. Total Quantity 0 Drums | 20. Unit Wt/Vol 1000 lbs | |
| | | | | No. | Type | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 9 | Day 17 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Mike | | | | Signature | | Month 6 | Day 21 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

619537

FOOTHILLS LANDFILL
 8900 HIGHWAY 90
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 555835 | GRID 0000 |
| WEIGHMASTER | | |
| 0000050 GINA D | | |
| DATE IN 5 September 2007 | | TIME IN 8:27 am |
| DATE OUT 5 September 2007 | | TIME OUT 8:27 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0550955 | ORIGIN | |

Gross Weight 75,740.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 41,760.00 lb 20.85 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.85 | TN | SW-COYT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

05509868

Please print or type

| | | | | | |
|--|--|---|---|--------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1550 Illinois St Golden, CO 80401 303-273-3896 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3896 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1550 Illinois St Golden, CO ACCOUNT # 05509868 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | CO 67 070008 YS11915 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Johnson | | Signature <i>[Signature]</i> | | Month Day Year 11 17 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name <i>[Signature]</i> | | Signature <i>[Signature]</i> | | Month Day Year 11 17 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name L. A. (AKA) H | | Signature <i>[Signature]</i> | | Month Day Year 11 17 07 | |

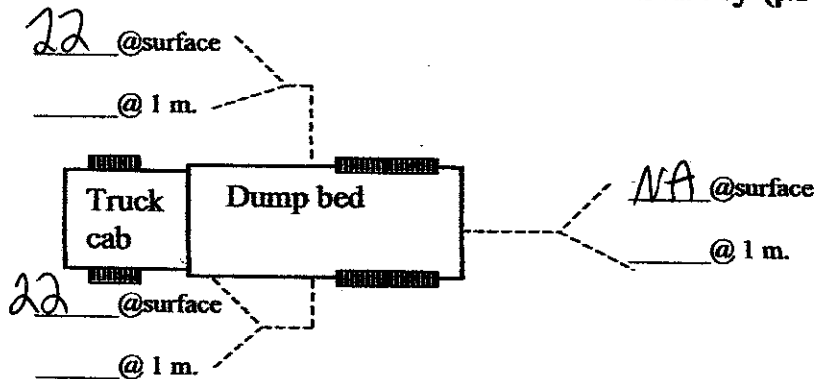
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/08 0816 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

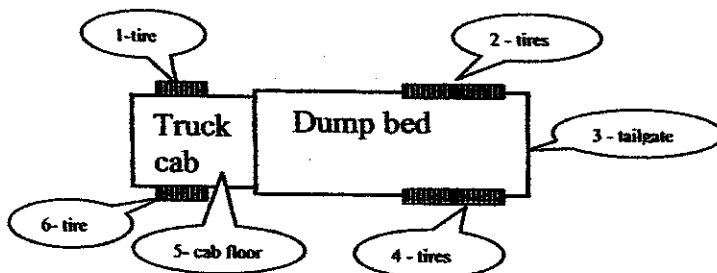
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 4220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550969

Please print or type.

| | | | | | | | | | | |
|--|--|--|--|---|------|--------------------|-----------------|-------|-----|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1570 Illinois St. Golden, CO 80401 303-273-0998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0998 | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Mountain 8500 Hwy 30 Golden, CO ACCOUNT # 880809 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | |
| 16. Waste Shipping Name and Description a. Non Sol b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L07 070906 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | | | |
| | | | | No. | Type | Drums | Galons | | | |
| | | | | | | Y-Yards | T-Tons | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month | Day | Year | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name Santos Vorjas | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

510548

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589871 | GRID 0004 |
| WEIGHMASTER | | |
| DATE IN 5 September 2007 | | TIME IN 8:35 am |
| DATE OUT 5 September 2007 | | TIME OUT 9:33 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550967 | ORIGIN | |

Gross Weight 77,060.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 41,420.00 lb 20.71 TH

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.71 | TN | SH-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

9-5-07



NON-HAZARDOUS WASTE MANIFEST

0550969

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Platte St Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado Landfill 1500 Hwy 93 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | CO L07 670900 Y511815 | | 19. Total Quantity 0.00 tons | |
| b. | | | | 20. Unit Wt/Vol 0.00 tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brahman | | [Signature] | | 1 1 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Santoso Vargas | | [Signature] | | 1 1 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | 9 1 97 | |

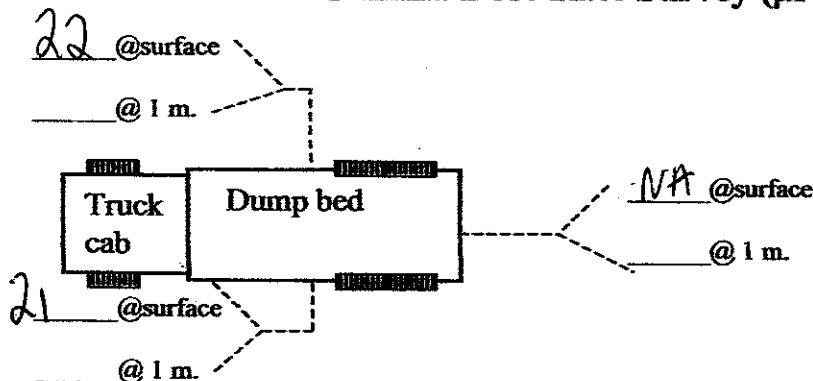
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/09 0822 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

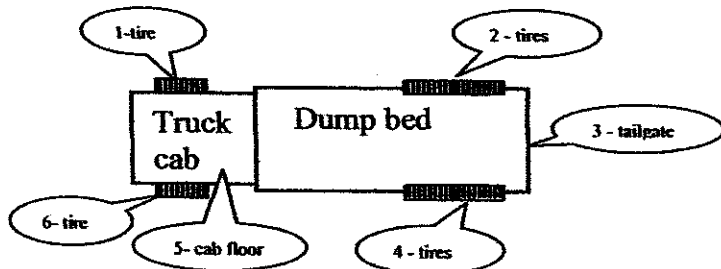
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550967

Please print or type.

| | | | | | | | |
|--|--|--|--|---|--|--|-----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address PacifiCorp, LLC 2600 Tracy St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Normal Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO167670005 Y611015 | | 18. Containers | | 19. Total Quantity 0 Drums 7 Yards | 20. Unit 3 Drums Tons |
| | | | | No. Type | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month Day Year 1 5 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Fernando Lopez | | | | Signature [Signature] | | Month Day Year 7 5 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519545

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 359896 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 3 September 2007 | | TIME IN 8:41 am |
| DATE OUT 3 September 2007 | | TIME OUT 3:41 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 350967 | ORIGIN | |

Gross Weight 75,440.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 38,860.00 lb 19.43 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.43 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



NON-HAZARDOUS WASTE MANIFEST

0550967

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Name: Soil | | 20187070003 Y611315 | | 19. Total Quantity 0.000000 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brahman | | Signature [Signature] | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Herrera | | Signature [Signature] | | Month Day Year 7 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 7 5 07 | |

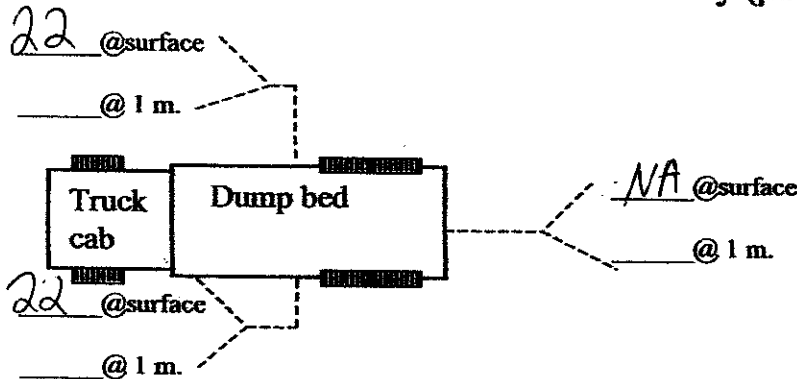
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0839 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

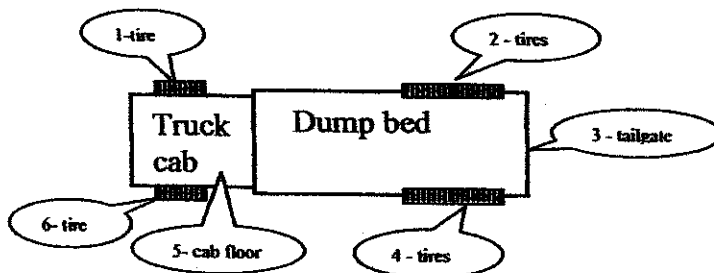
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550368

23

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address: 1500 Illinois St Golden, CO 80401 303-273-0098 | | | | 5. Generating Location (if different): School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-0098 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address: P.O. Box 50 Golden, CO ACCOUNT # 000003 (School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO LGT 070006 VS 11615 | | 19. Total Quantity 6 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Shelton | | Signature | | Month Day Year 9 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

510535

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 587904 | GRID 0000 |
| WEIGHMASTER 0000056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 8:58 am |
| DATE OUT 5 September 2007 | | TIME OUT 8:58 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0550968 | ORIGIN | |

Gross Weight 81,800.00 lb
 Tare Weight 35,100.00 lb Inbound ~
 Net Weight 46,700.00 lb 23.35 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.35 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550368

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 93 Golden, CO ACCOUNT # 88003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | CO L67 070903 1011916 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Shelton | | Signature | | Month Day Year 9 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 7 5 07 | |

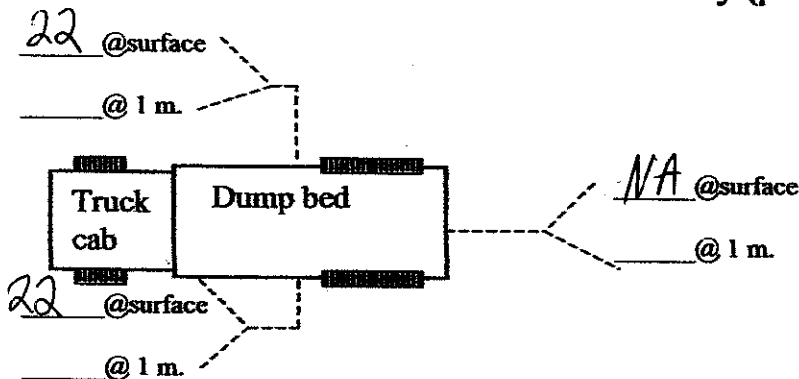
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0847 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

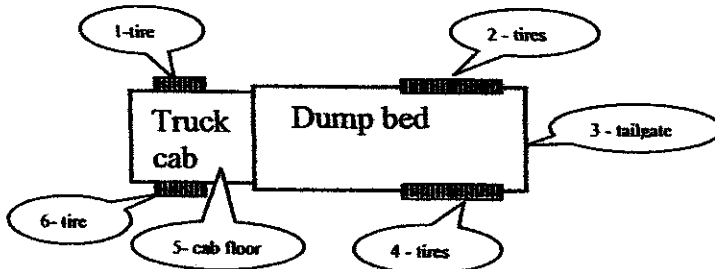
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 50
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

24 519580

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589711 | GRID 0000 |
| WEIGHMASTER DC00036 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 7:00 am |
| DATE OUT 5 September 2007 | | TIME OUT 7:03 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550750 | ORIGIN | |

Gross Weight 84,720.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 47,520.00 lb 23.76 TH

Inbound

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.76 | TH | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550950

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-1000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 8000 Noy St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO 187 07036/1511919 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons | | | | | |
| 20. Unit Yards Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beaman | | Signature | | Month Day Year 11 5 02 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature | | Month Day Year 09 05 02 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

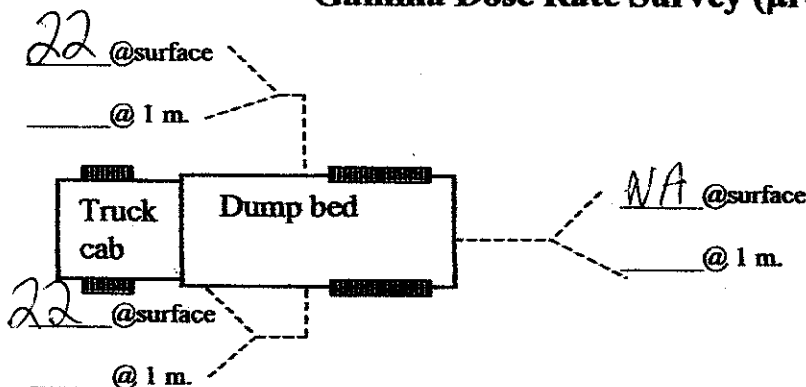
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0859 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

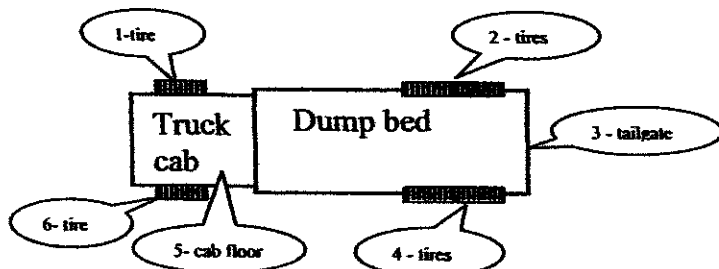
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550951

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Hill Trucking #112 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address PacifiCorp Landfill 2000 Hwy 90 Golden, CO 80401 (Contractor's Storage of Wastes) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Harm Soil | | CO 107 070008 : 511915 | | 19. Total Quantity 0.0 Drums | |
| b. | | | | 20. Unit Wt/Vol 6.4 Cubic Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 7 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 7 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

510588 12

FOOTHILLS LANDFILL

8900 HIGHWAY 92

GOLDEN

CO

760603

COLORADO SCHOOL OF MINES

1500 ILLINOIS ST

GOLDEN, CO 80401

Contract: 7311915

| | | |
|------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 539919 | GRID 0000 |
| WEIGHMASTER D6007E Barbara Jo S | | |
| DATE IN E September 2007 | | TIME IN 7:17 am |
| DATE OUT E September 2007 | | TIME OUT 9:17 am |
| VEHICLE 7311915 | | ROLL OFF |
| REFERENCE 0350751 | ORIGIN | |

Gross Weight 85.130.00 lb

Tare Weight 37.700.00 lb

Net Weight 47.430.00 lb 23.71 TW

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.71 | TW | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550951

Please print or type.

| | | | | | | | | |
|--|--|--|--|---|------|--------------------|----------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3990 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Blue Truck #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 50 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date C0167070081511915 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | 0.000000 | 0.000000 | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature | | Month 9 | Day 5 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name John | | | | Signature | | Month 7 | Day 5 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

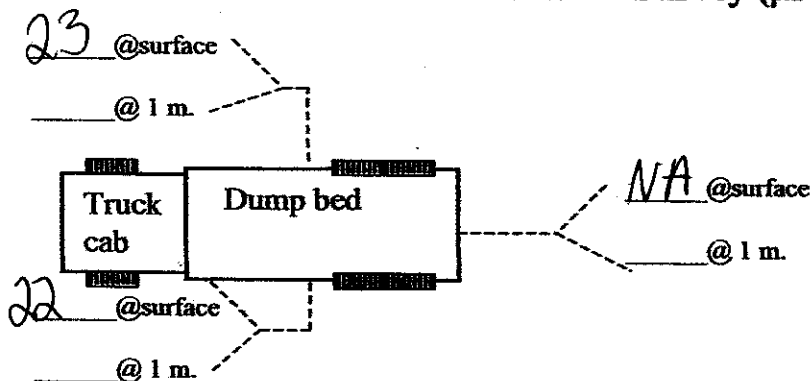
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0905 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

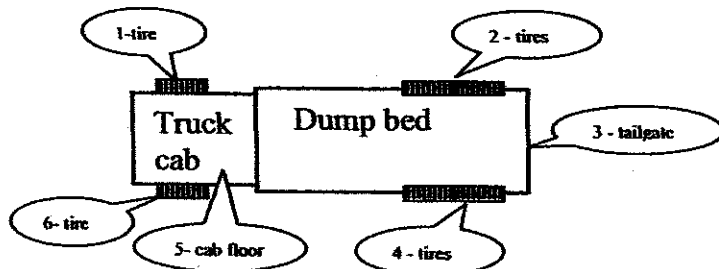
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550952

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Winger St. Golden, CO 80401 303-273-3093 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3093 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1600 Hwy 80 Golden, CO 80401 (Allied Waste School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. None Sent | | CO 187 070909 10-10-15 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Yards | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 1 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

513576

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589921 | GRID 0000 |
| WEIGHMASTER 2500056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 9:20 AM |
| DATE OUT 5 September 2007 | | TIME OUT 9:20 AM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0350952 | ORIGIN | |

Gross Weight 84,500.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 47,960.00 lb 23.98 TN

Inbound -

10/10/07

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.98 | TN | 30-CENT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550052

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous Soil | | CO1A7170900 VS11315 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Y-Yards | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 11/5/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 09/05/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

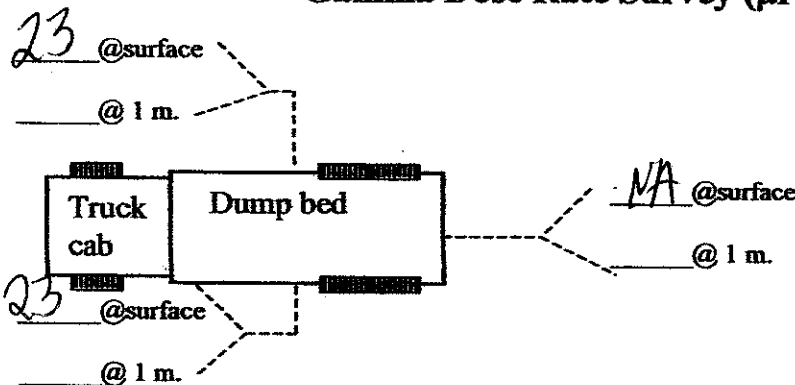
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/09 0914 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

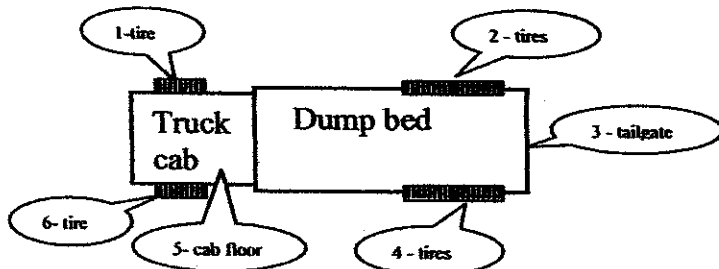
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550953

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Warden St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Mountain 10000 Hwy 91 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Storm Soil | | 00167 070908 1511815 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons | | | | | |
| 20. Unit Yards Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 5 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Collazo Lopez | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

510578

FOOTHILLS LANDFILL
2500 HIGHWAY 93
GOLDEN
CO
740603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 539927 | GRID 0000 |
| WEIGHMASTER 0500055 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 9:33 am |
| DATE OUT 5 September 2007 | | TIME OUT 9:03 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550953 | ORIGIN | |

Gross Weight 91,920.00 lb
Tare Weight 35,700.00 lb
Net Weight 46,220.00 lb 23.11 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.11 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550953

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3896 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3896 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfills 8900 Hwy 91 Golden, CO 80401 ALLIED WASTE SERVICES (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous Soil | | CO187173908-511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums Y Yards Tons | | | | | |
| 20. Unit Wt/Vol Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | Signature | | Month Day Year 11 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rodolfo Collazo Lopez | | Signature | | Month Day Year 09 05 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

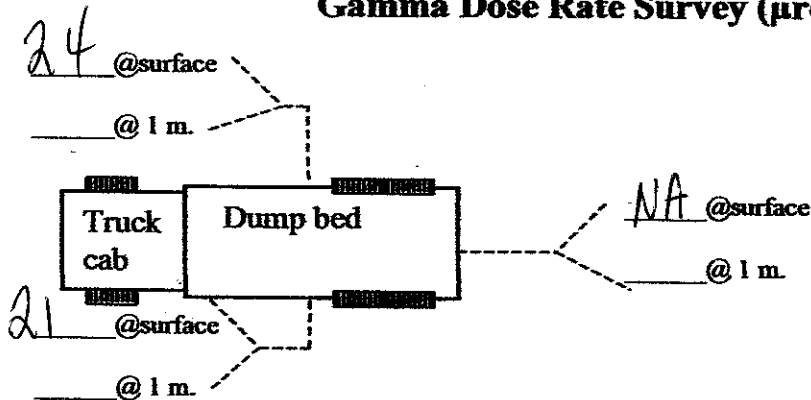
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0920 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

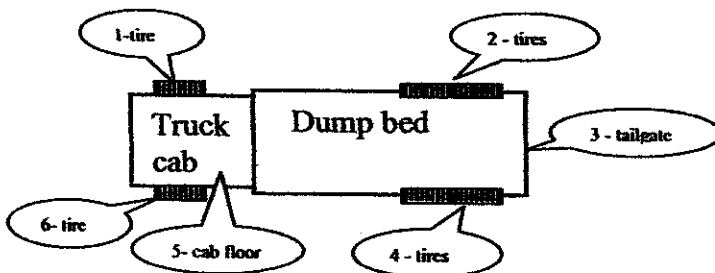
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550954

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 13th St Golden, CO 80401 303-373-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-373-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 W. 13th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | AG 187 070008 / 511015 | | 19. Total Quantity Y-Yards | |
| b. | | | | 20. Unit T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Z... | | Signature [Signature] | | Month Day Year 7 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Name] | | Signature [Signature] | | Month Day Year 7 1 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

516581

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589902 | GRID 0000 |
| WEIGHMASTER #500056 Barbara Jo E | | |
| DATE IN 5 September 2007 | | TIME IN 9:39 am |
| DATE OUT 5 September 2007 | | TIME OUT 9:39 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0550984 | ORIGIN | |

Gross Weight 79,900.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 44,900.00 lb 22.45 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.45 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550954

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3090 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3090 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non-Hazardous | | CO10707000 05/19/15 | | 19. Total Quantity 12 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Zankman | | Signature | | Month Day Year 7 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Michael W. Jones | | Signature | | Month Day Year 7 1 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

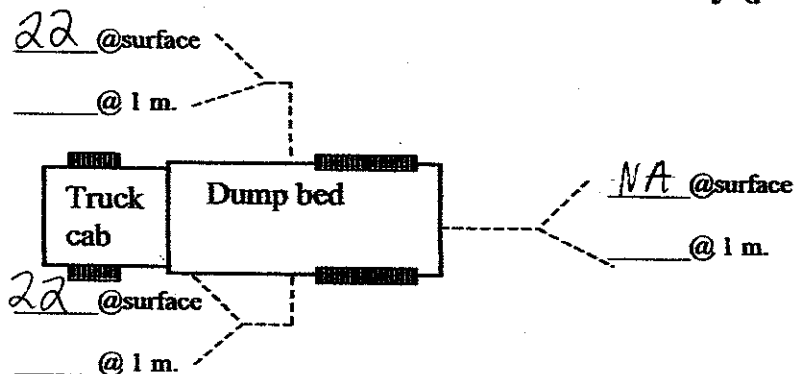
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/09 0926 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

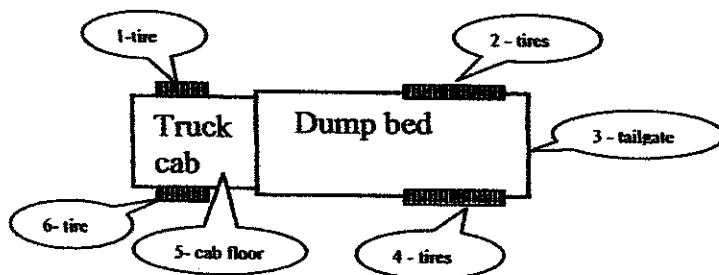
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-------------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 554.0 |



NON-HAZARDOUS WASTE MANIFEST

0550955

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 3800 Hwy 24 Golden, CO 80401 (Site # 1511915) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Iron Ore | | CO 167 070000 1511915 | | 19. Total Quantity 0.000000 20. Unit 0.000000 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature [Signature] | | Month Day Year 10 15 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 10 15 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

319538

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 889937 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo G | | |
| DATE IN 5 September 2007 | | TIME IN 7:45 am |
| DATE OUT 5 September 2007 | | TIME OUT 7:45 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0250935 | ORIGIN | |

00 Gross Weight 78,280.00 lb
 Tare Weight 36,980.00 lb Inbound -
 Net Weight 41,300.00 lb 20.65 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.65 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten signature]



NON-HAZARDOUS WASTE MANIFEST

0550955

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footwall Landfill 28001 Hwy 92 Golden, CO ACCOUNT # 58183 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North Soil | | COLEP 070000 011915 | | 18 18 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Debris G-Gallons | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Brinkman | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

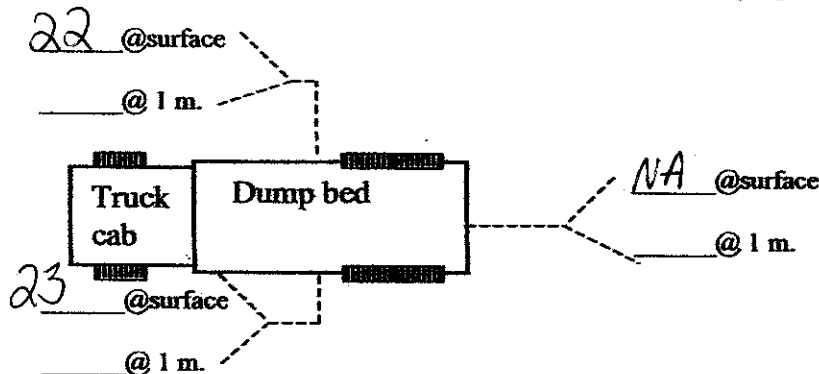
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/09 0932 Surveyed by: J. Mattson C. Hicks

Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

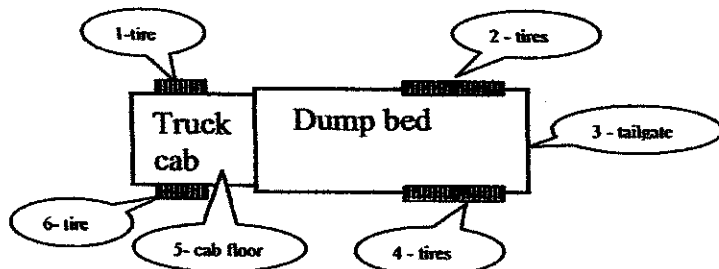
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

05509356

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3098 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 5900 Hwy 10 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Metal Scrap | | CO 617 670906 Y611915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit Wt/Vol D-Drums Y-Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 12 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargas | | Signature | | Month Day Year 12 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519591

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 569942 | GRID 0000 |
| WEIGHMASTER K600056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 9:49 am |
| DATE OUT 5 September 2007 | | TIME OUT 9:49 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0530956 | ORIGIN | |

00 Gross Weight 77,140.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 41,500.00 lb 20.75 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.75 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

[Signature] 9-5-07





NON-HAZARDOUS WASTE MANIFEST

0550956

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 8200 Hwy 90 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 00 L27 070908 / 611915 | | 18 1-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Brinkman | | Signature | | Month Day Year 12 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Santiago Vargas | | Signature | | Month Day Year 12 5 11 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 12 5 11 | |

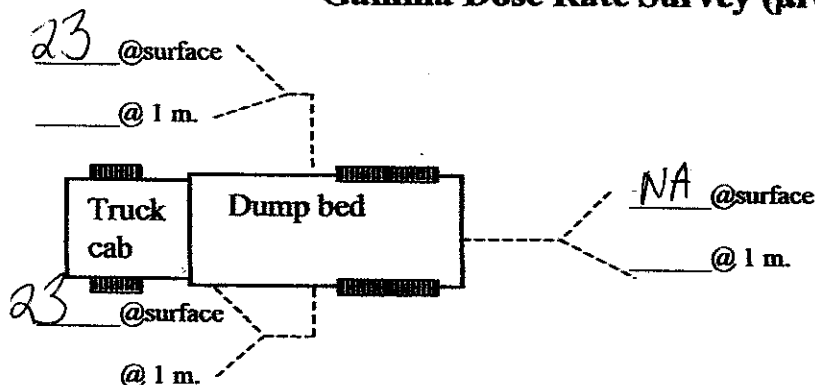
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0939 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

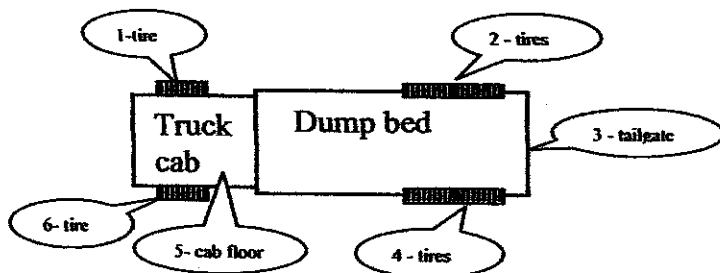
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550959

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO 107 070900 7511916 | | 18. Containers No. Type | |
| b. | | | | 19. Total Quantity Y-Yards | |
| c. | | | | 20. Unit Wt/Vol T-Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benito | | Signature <i>[Signature]</i> | | Month Day Year 1 5 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Rivera | | Signature <i>[Signature]</i> | | Month Day Year 1 5 04 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

513585

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80601
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 389946 | GRID 0000 |
| WEIGHMASTER 1600056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 7:55 am |
| DATE OUT 5 September 2007 | | TIME OUT 7:55 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0530959 | ORIGIN | |

Gross Weight 80,660.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 44,080.00 lb 22.04 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.04 | TN | SW-COFT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK NO.





NON-HAZARDOUS WASTE MANIFEST

0550959

Please print or type.

| | | | | | | | | | | |
|---|--|--------------------------|---|---|----------------------------|-------------------------------|--------------------|-----------------|-------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | | |
| | | | | | | | | | No. | Type |
| | | | | | a. Barro Soil | CO 011 57000 1511915 | | 15 | Yards | Tons |
| | | | | | b. | | | | | |
| | | | | | c. | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name <i>Steve Benham</i> | | | | Signature <i>[Signature]</i> | | Month Day Year <i>11 5 23</i> | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name <i>Fernando Luna</i> | | | | Signature <i>[Signature]</i> | | Month Day Year <i>11 5 23</i> | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | | | |

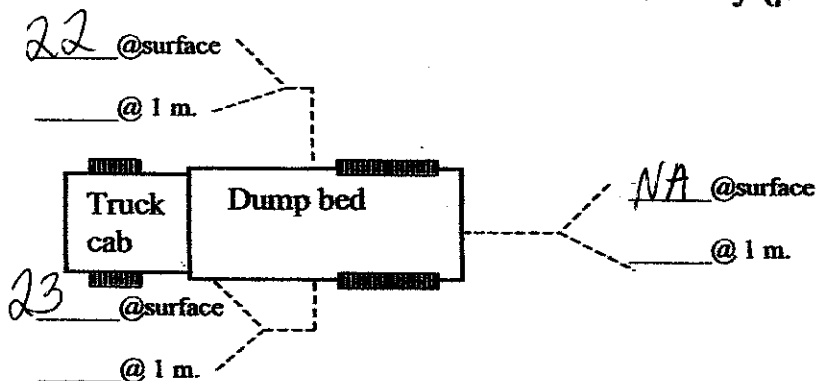
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/07 0945 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

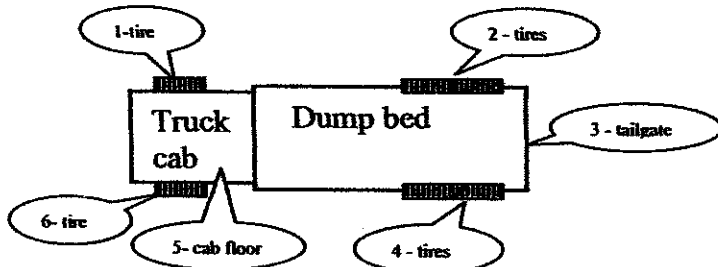
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17.0 µrem/hr | 0.0 α | 253.0 β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 554.0 | |



NON-HAZARDOUS WASTE MANIFEST

0550958

Please print or type.

| | | | | | | | | | | |
|--|--|--------------------------|--|--|----------------------------|--|--------------------|--------------------------|-----------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3696 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3696 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 # 050000 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | | 17. Allied Waste Approval # and Exp. Date CO LA7 070908 YS11915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | | No. Type | | 0 Drums | | 0 Drums | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Beaton | | | | Signature <i>[Signature]</i> | | | | Month Day Year 7 5 07 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name MARK PULAN | | | | Signature <i>[Signature]</i> | | | | Month Day Year 9 5 07 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | |

GENERATOR'S COPY

COM000033

519801

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|--------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 959952 | GRID 0000 |
| WEIGHMASTER 85000056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 10:01 am |
| DATE OUT 5 September 2007 | | TIME OUT 10:01 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550958 | ORIGIN | |

Gross Weight 86,980.00 lb
Tare Weight 35,100.00 lb
Net Weight 51,880.00 lb 25.94 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 25.94 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550958

Please print or type.

| | | | | | | | | |
|--|--|--|--|---|------|--------------------|-----------------|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3888 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3888 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 8900 Hwy 93 Golden, CO 80401 (Allied Waste Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Non Sol b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L07 07/00/06 YS11915 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | Drums | Stations | |
| | | | | | 18 | Yards | Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name: Steve Benkman | | | | Signature: [Signature] | | Month: 7 | Day: 5 | Year: 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name: Mark Pellan | | | | Signature: [Signature] | | Month: 9 | Day: 5 | Year: 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: | Day: | Year: |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: | Day: | Year: |

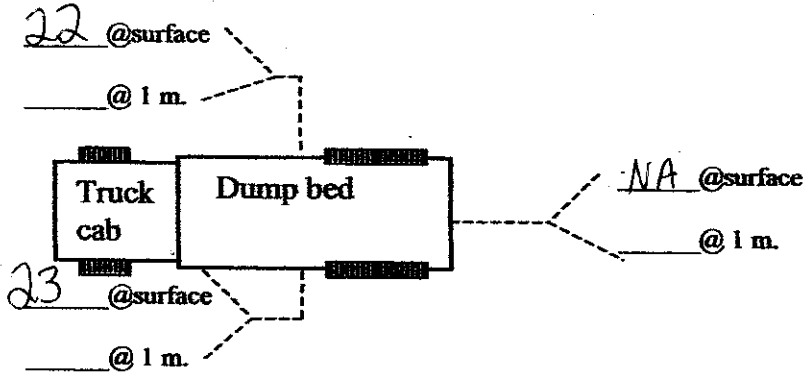
TRANSPORTER #1

COM000093

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/5/06 0955 Surveyed by: J. Mattson C. Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

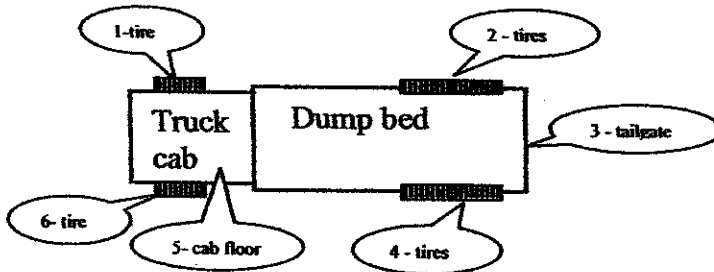
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-------------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17.0 $\mu\text{rem/hr}$ | 0.0 α | 253.0 β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 554.0 |

FOOTHILLS LANDFILL
 2900 HIGHWAY 73
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7511915

24

519611

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 289942 | GRID 0000 |
| WEIGHMASTER 9600056 Barbara Jo S | | |
| DATE IN 5 September 2007 | | TIME IN 10:13 am |
| DATE OUT 5 September 2007 | | TIME OUT 10:13 am |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 0530457 | ORIGIN | |

Gross Weight 89,700.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 46,500.00 lb 23.25 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.25 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE K. CAS



NON-HAZARDOUS WASTE MANIFEST

0550957

Please print or type.

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Soe Grue Trucking | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 School of Mines Research Institute | | 17. Allied Waste Approval # and Exp. Date CO 157 070900 15-11-91S | | 19. Total Quantity 0.5 Yards | |
| 16. Waste Shipping Name and Description a. Normal Soil | | 18. Containers No. Type 18 Y | | 20. Unit Wt/Vol Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | Signature | | Month Day Year 11/5/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Skarner | | Signature | | Month Day Year 10/10/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

9/4/07

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|---------------------|--------|---------|----------|----------------------------|
| Grieve 24 | 9/4/07 | 1225 | 1238 | 18 |
| Collazo 13 | | 1235 | 1255 | |
| Marguez 961 | | 1305 | 1315 | |
| Ruiz 95 | | 1310 | 1320 | |
| Grieve 23 | | 1315 | 1327 | |
| Grieve 8 | | 1320 | 1332 | |
| JD JD 04 | | 1325 | 1339 | |
| Marguez 96 | | 1330 | 1345 | |
| Grieve 12 | | 1335 | 1351 | |
| Grieve 24 | | 1340 | 1358 | |
| Collazo 13 | | 1345 | 1403 | |
| Marguez 961 | | 1355 | 1415 | |
| Ruiz 95 | | 1430 | 1432 | |
| Grieve 23 | | 1430 | 1440 | |
| Grieve 8 | | 1440 | 1450 | |
| JD 04 | | 1445 | 1457 | |
| Marguez 96 | | 1450 | 1506 | |
| Grieve 12 | | 1455 | 1514 | |
| Grieve 24 | | 1500 | 1527 | |
| Collazo 13 | ✓ | 1510 | 1535 | ✓ |

87.9
81.2
82.7
87.9
76.1
80.5
83.9

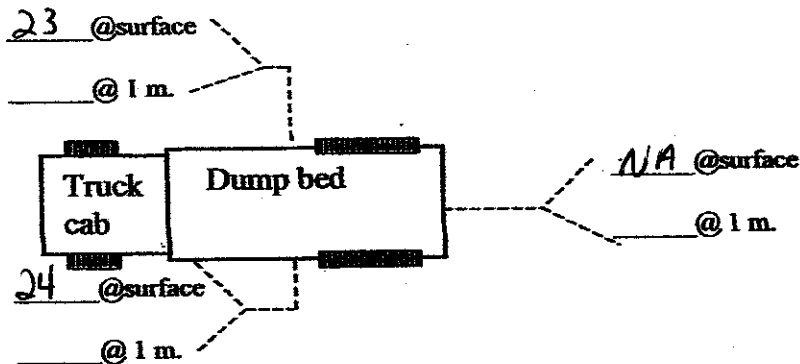
60 total for day

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1238 Surveyed by: CHicks, J Mattson

Trucking Company: Greene Truck license plate no./state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

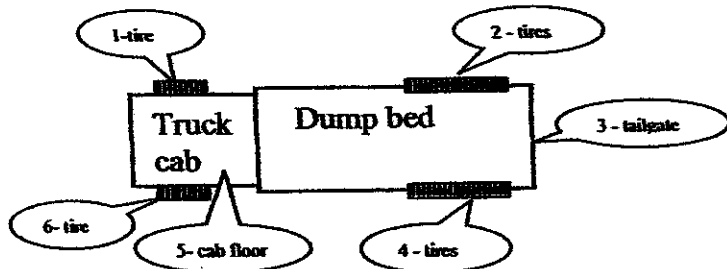
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 dpm | 571.6 dpm |

24

529323

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDFEN
 CO
 808400
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDFEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 529323 | GRID 0000 |
| WEIGHMASTER | | |
| 2000060 CINA C | | |
| DATE IN 4 September 2007 | | TIME IN 12:55 pm |
| DATE OUT 4 September 2007 | | TIME OUT 12:55 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0530960 | ORIGIN | |

OS Gross Weight 83,300.00 lb
 Tare Weight 37,200.00 lb Inbound -
 Net Weight 46,100.00 lb 23.05 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



[Handwritten Signature]

SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550980

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|--------------------------------|--|--|-----|------|-----------------------------|--------------------------------|----|---|---------|--------|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | |
| 7. Transporter #1 Company Name SOE GRIEVE TRUCKING | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address T. J. JONES LANDFILL 8000 Hwy 301 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| a. Norm Soil | | CO 187 070308 YS11915 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity Drums</th> <th>20. Unit Wt/Vol Ct/Drums</th> </tr> <tr> <td>18</td> <td>Y</td> <td>Y-Yards</td> <td>T-Tons</td> </tr> </table> | | No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Ct/Drums | 18 | Y | Y-Yards | T-Tons |
| No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Ct/Drums | | | | | | | | | | |
| 18 | Y | Y-Yards | T-Tons | | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve Birkman | | Signature <i>[Signature]</i> | | Month Day Year 10 04 07 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name Leo Shannon | | Signature <i>[Signature]</i> | | Month Day Year 09 04 07 | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

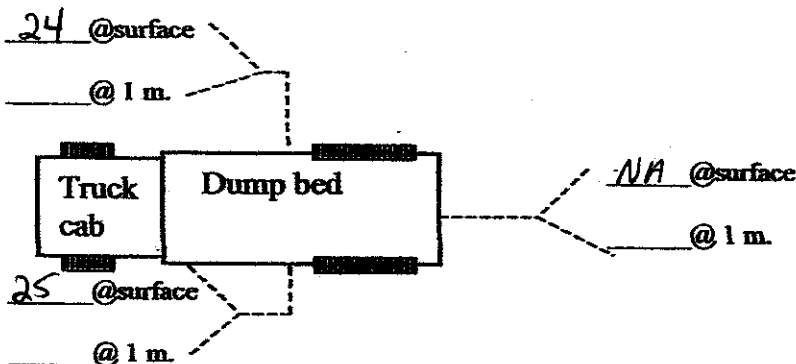
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1255 Surveyed by: CHicks, J Mattson
 Trucking Company: Grene Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

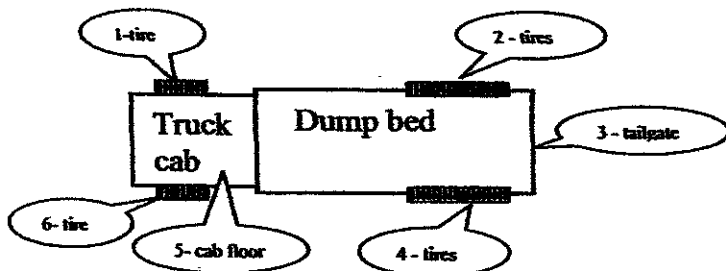
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550981

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 ACX22222 # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | CO L67 070908 Y511915 | | 18 18 Y-Yards T-Tone | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 07 01 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Dale C. Beckman | | Signature | | Month Day Year 07 01 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

318335

FOOTHILL LANDFILL
 8900 HIGHWAY 70
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

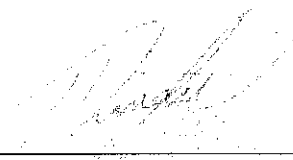
Contract: Y511915

| | | | | | |
|------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 559591 | | 0000 | |
| WEIGHMASTER | | | | | |
| PC00080 GINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 4 September 2007 | | | 1:12 PM | | |
| DATE OUT | | | TIME OUT | | |
| 4 September 2007 | | | 1:12 PM | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0550981 | | | | | |

Gross Weight 84,500.00 lb
 Tare Weight 35,700.00 lb
 net Weight 48,800.00 lb 24.40 TN
 Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.40 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550981

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 700 Hills Lane 8000 Hwy 90 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non Sol | | CO L87 070508 1011515 | | 18 18 Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Drums G-Gallons | | | | | |
| 20. Unit Wt/Vol L-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature [Signature] | | Month Day Year 8/01/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John [Signature] | | Signature [Signature] | | Month Day Year 07/04/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 07/04/07 | |

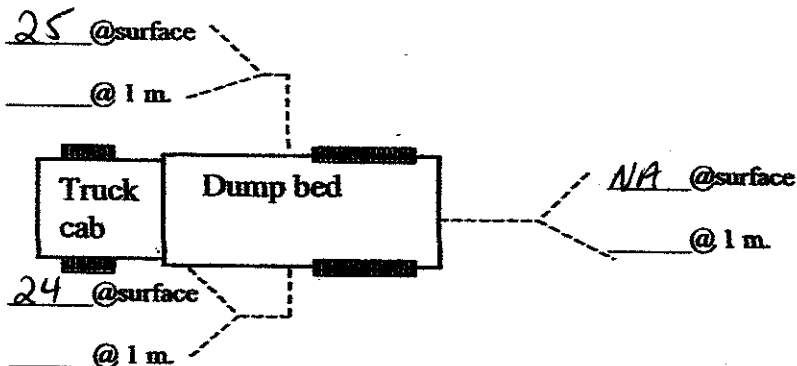
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1315 Surveyed by: CHicks, J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

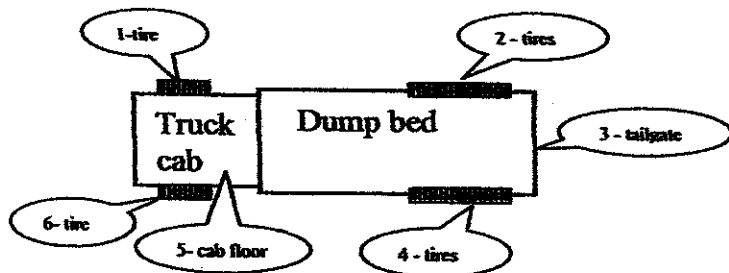
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550982

Please print or type.

| | | | | | |
|--|--|---|---|--|--------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Normal Soil | | 20187 073008 Y5/1915 | | 19. Total Quantity 0 Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | Signature | | Month Day Year 7 1 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Allan J. ... | | | Signature | | Month Day Year 7 1 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519351

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589707 | GRID 0000 |
| WEIGHMASTER | | |
| F000060 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 1:32 pm |
| DATE OUT 4 September 2007 | | TIME OUT 1:33 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550982 | ORIGIN | |

GC Gross Weight 83,880.00 lb
 Tare Weight 34,400.00 lb Inbound -
 Net Weight 49,480.00 lb 24.74 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.74 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

A P

Please print or type

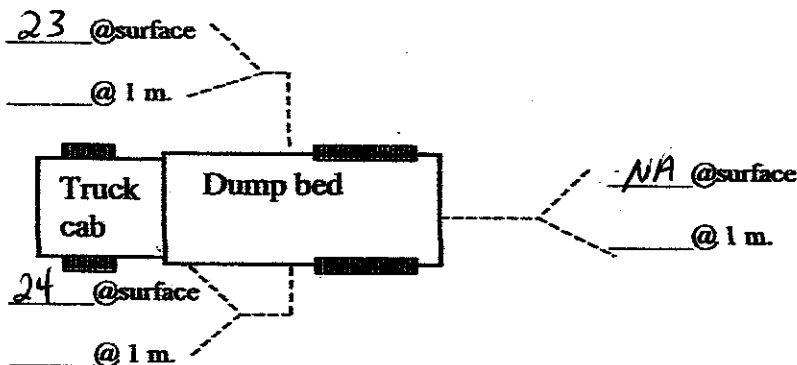
| | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|------|---|--------------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3086 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Oceanic Landfill 4300 Hwy 93 Golden, CO ADDITIONAL # 1616903 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | 20. Unit Wt/Vol | |
| | | | | | No. | Type | | | |
| a. Norm Soil | | | CO L07 07/09/98 YS11915 | | | 18 | | | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | | Month | Day | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | Month | Day | Year |

TRANSPORTER #1

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1320 Surveyed by: CHicks, J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

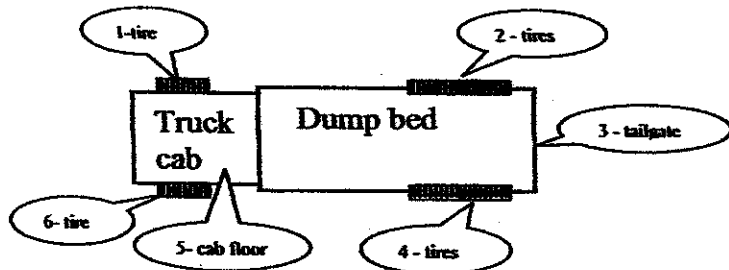
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550983

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3586 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3586 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2000 Hwy 92 Golden, CO ACCOUNT # 904415 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO 167 072208 VS11915 | | 19. Total Quantity Y-Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. Brown | | Signature | | Month Day Year 7 1 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve B. Brown | | Signature | | Month Day Year 7 1 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519356

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 587712 | 0000 |
| WEIGHMASTER | | |
| AC000060 SINA C | | |
| DATE IN | | TIME IN |
| 4 September 2007 | | 1:36 pm |
| DATE OUT | | TIME OUT |
| 4 September 2007 | | 1:58 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| | | |

Gross Weight 81,160.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 44,160.00 lb 22.09 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.09 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550983

Please print or type.

| | | | | | | |
|--|--|---|--|---|--|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1570 Birch St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | |
| 4. Phone () | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address Fossilite Landfill 8870 Hwy 30 Golden, CO ACCOUNT # 840913 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description a. Non-Haz b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO18700908 Y511915 | | 18. Containers | | 19. Total Quantity 0.5 Tons 20. Unit Wt/Vol Tons |
| | | | | No. Type | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | |
| Printed/Typed Name: Steve B. Brown | | Signature: [Signature] | | Month Day Year 8 1 07 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name: [Signature] | | Signature: [Signature] | | Month Day Year 1 1 07 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | |
| Printed/Typed Name: [Signature] | | Signature: [Signature] | | Month Day Year 1 1 07 | | |

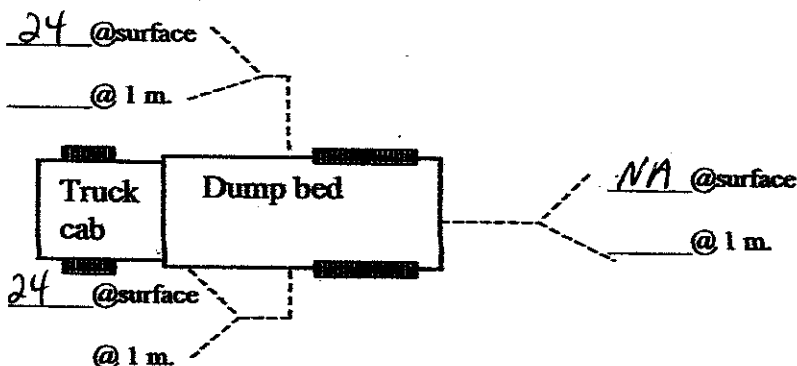
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1327 Surveyed by: CHicks, J Mattson
 Trucking Company: Griene Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

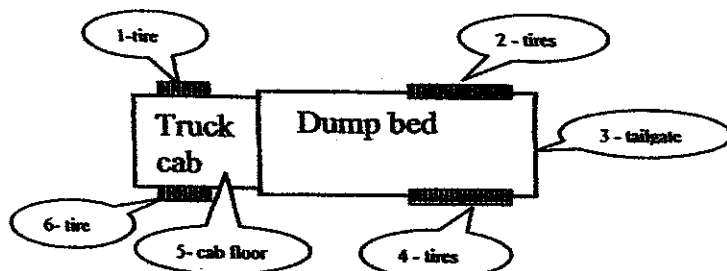
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550984

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Blake St Golden, CO 80401 303-273-3850 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3850 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 E 0000 1511315 | | 19. Total Quantity Y-Yards | |
| b. | | | | 20. Unit Wt/Vol G-Gallons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | Signature | | Month Day Year 7/4/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature | | Month Day Year 7/4/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519362

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806009
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | ES9718 | 0000 |
| WEIGHMASTER | | |
| REC00080 CIMA C | | |
| DATE IN | TIME IN | |
| 4 September 2007 | 1:42 pm | |
| DATE OUT | TIME OUT | |
| 4 September 2007 | 1:42 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0350784 | | |

G3 Gross Weight 32,740.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 47,840.00 lb 23.82 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.82 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550984

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6300 Hwy 20 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | CO 16710908 YS11915 | | 19. Total Quantity 10 Yards | |
| b. | | | | 20. Unit Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Berenson | | Signature | | Month Day Year 8/4/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature | | Month Day Year 8/4/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

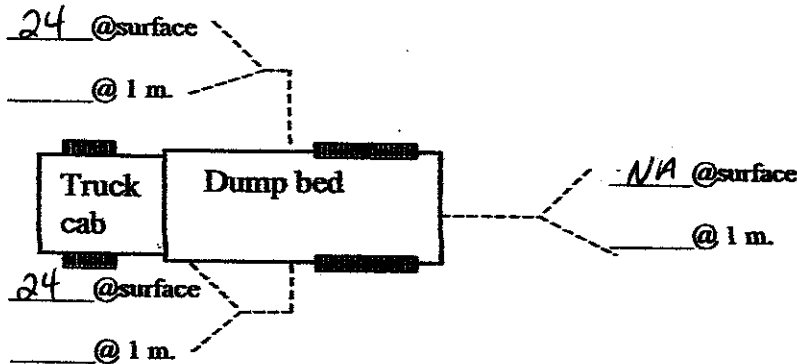
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1332 Surveyed by: CHicks, J Mattson
 Trucking Company: Greene Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

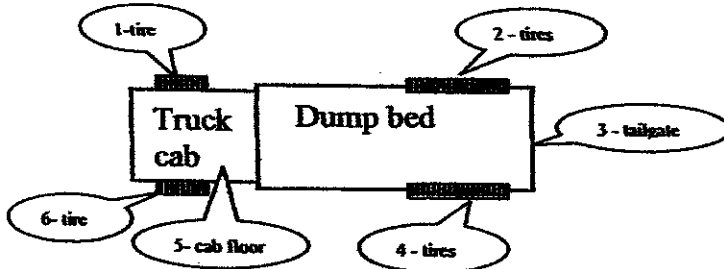
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550985

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|------------------------------|---|--|-----|------|-------------------------------|------------------------------|-------|---|---------|--------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3000 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Columbia County 3370 Hwy 85 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity D-Drums</th> <th>20. Unit Wt/Vol G-Gallons</th> </tr> </thead> <tbody> <tr> <td>a. 18</td> <td>4</td> <td>Y-racks</td> <td>1-Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G-Gallons | a. 18 | 4 | Y-racks | 1-Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G-Gallons | | | | | | | | | | | | | | | | | | | | | | |
| a. 18 | 4 | Y-racks | 1-Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Flamm. Sol | | CO 187 075003 Y5 1/16/15 | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| Steve Brinkman | | | | 1 1 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| Chuck Foy | | | | 07 01 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519366

FOOTHILL LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960606

COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 559722 | GRID 0000 |
| WEIGHMASTER | | |
| #000080 BINA C | | |
| DATE IN 4 September 2007 | | TIME IN 1:48 am |
| DATE OUT 4 September 2007 | | TIME OUT 1:48 am |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 050785 | ORIGIN | |

Gross Weight 25,380.00 lb
Tare Weight 36,540.00 lb
Net Weight 46,840.00 lb 23.42 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.42 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0550985

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1100 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 1900 Hwy 30 Golden, CO 80401 (Clockwork Ranch of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| Drums | | Gallons | | | |
| Yards | | Tons | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 7 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | [Signature] | | 09 01 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

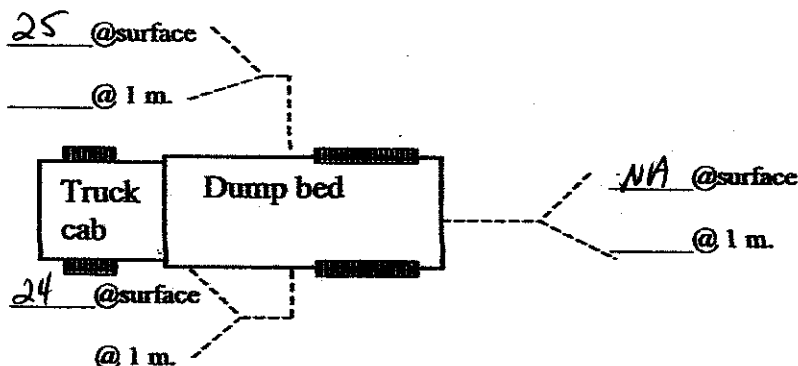
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1339 Surveyed by: C Hicks, J Mattson
 Trucking Company: Greene Truck license plate no./state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

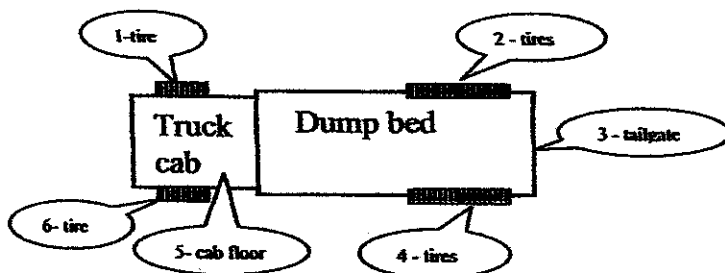
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0530990

Please print or type.

| | | | | | | | | | | | | | |
|--|--|---|--|---|--|--------------------|--|-----------------|--|----------|--|------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
| 3. Generator's Name and Mailing Address 1000 North St Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Wash St Golden, CO 80401 303-273-3698 | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 North St Golden, CO 80401 ACCOUNT # 00000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description a. Harm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 187 (00000) V511015 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | | | |
| | | | | No. Type | | Drums | | Gallons | | | | | |
| | | | | | | Y-Yards | | Tons | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve B... .. | | | | Signature [Signature] | | | | Month 9 | | Day 1 | | Year 99 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name Santion Vay... .. | | | | Signature [Signature] | | | | Month | | Day | | Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |

GENERATOR'S COPY

COM000033

519371

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589727 | GRID 0000 |
| WEIGHMASTER RC00080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 1:58 pm |
| DATE OUT 4 September 2007 | | TIME OUT 1:58 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550990 | ORIGIN | |

CG Gross Weight 76,120.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 40,480.00 lb 20.24 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

9-11-07



NON-HAZARDOUS WASTE MANIFEST

0550990

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St. Golden, CO ACCOUNT # 0550990 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non-Hazardous Soil | | CO 107 070808 1511015 | | 19. Total Quantity 0.000000 Y-Yards | |
| b. | | | | 20. Unit Wt/Vol 0.000000 Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9 27 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santana Vargas | | Signature | | Month Day Year 9 27 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

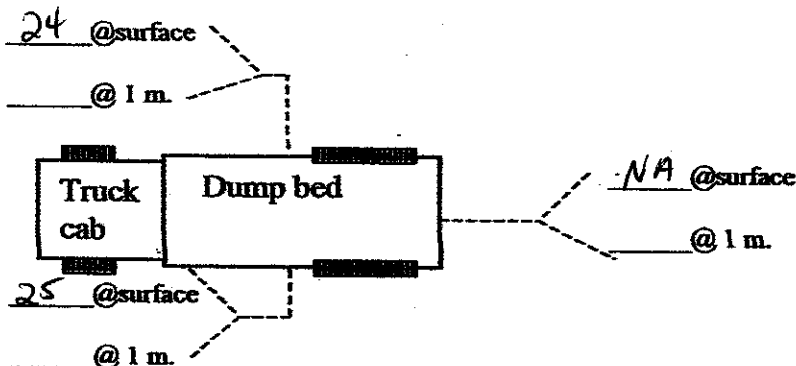
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1345 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

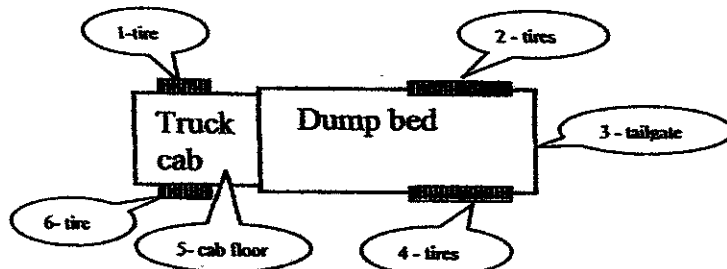
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550908

Please print or type:

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Birch St Golden, CO 80401 303-273-3999 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3999 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Farmingdale 9500 Hwy 32 Golden, CO 80401 # 900000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | 00167 97008 Y511915 | | Y-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Blum | | Signature | | Month Day Year 7 10 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Barra | | Signature | | Month Day Year 7 11 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

318578

FOOTHILLS LANDFILL
8900 HIGHWAY 97
GOLDEN
CO
740600

COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y311915

| | | |
|-------------------------------|------------------|---------------------|
| SITE 01 | TICKET 587/32 | GRID 0000 |
| WEIGHMASTER P000080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 2:03 PM |
| DATE OUT 4 September 2007 | | TIME OUT 2:03 PM |
| VEHICLE Y311915 | | ROLL OFF |
| REFERENCE 0530786 | ORIGIN | |

Gross Weight 80,550.00 LB
Tare Weight 36,580.00 LB
Net Weight 43,970.00 LB 21.98 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.98 | TN | SUB-CONF SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550988

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 1st St. Golden, CO 80401 303-275-3893 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-275-3893 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 W. 1st St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Sol | | 17. Allied Waste Approval # and Exp. Date CO16707818 Y511915 | | 18. Containers No. Type 18 55-gal drums | |
| b. | | | | 19. Total Quantity Drums | |
| c. | | | | 20. Unit Wt/Vol Gallons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Blum | | Signature | | Month Day Year 12/10/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Lara | | Signature | | Month Day Year 12/10/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

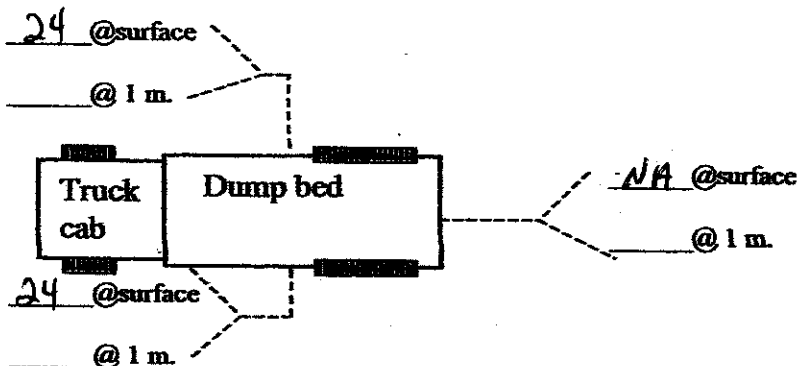
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1351 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

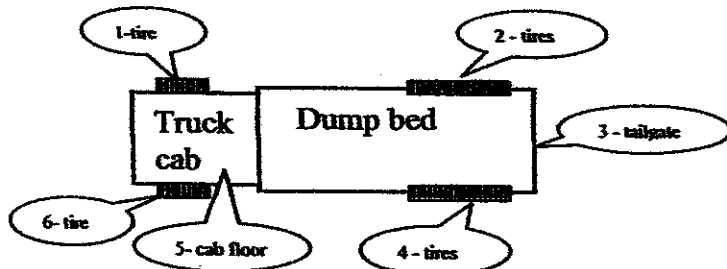
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0553986

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Minor St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different from 3) Fennell School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Greene Trucking H/L | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Fennell School of Mines Golden, CO 80401 ACCOUNT # 155411 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date 0010707000 Y511915 | | 18. Containers No. Type 18 | |
| 16. Waste Shipping Name and Description a. Normal Soil | | 19. Total Quantity Y-Yards | | 20. Unit Wt/Vol T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Schmitt | | Signature | | Month Day Year 6 5 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Schmitt | | Signature | | Month Day Year 6 5 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519381 12

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contractor YE11915

| | | |
|-------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589737 | GRID 0000 |
| WEIGHMASTER PC00060 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 2:05 pm |
| DATE OUT 4 September 2007 | | TIME OUT 2:06 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0530966 | ORIGIN | |

Gross Weight 80,880.00 lb
 Tare Weight 37,700.00 lb Inbound -
 Net Weight 43,180.00 lb 23.09 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.09 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550936

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-0998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene Trucking H/L | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North Sol | | 0218707008 1511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0-Drums 0-Gallons | | | | | |
| 20. Unit Wt/Vol Y-Yards T-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Reinhart | | Signature | | Month Day Year 4 8 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John C. O. | | Signature | | Month Day Year 4 8 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

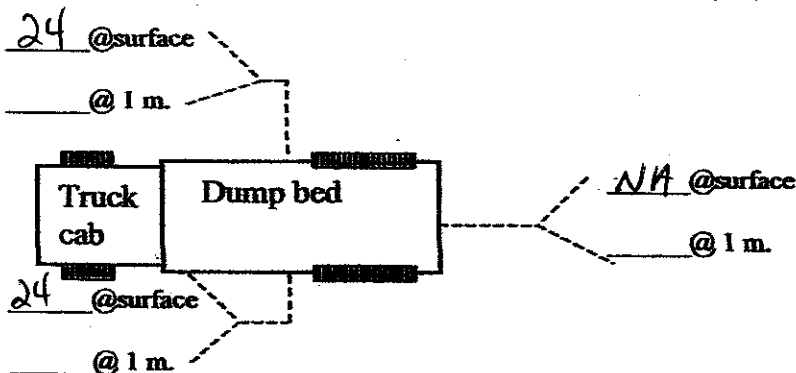
TRANSPORTER #1

COM090036

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1358 Surveyed by: CHicks, J Mattson
 Trucking Company: Greene Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

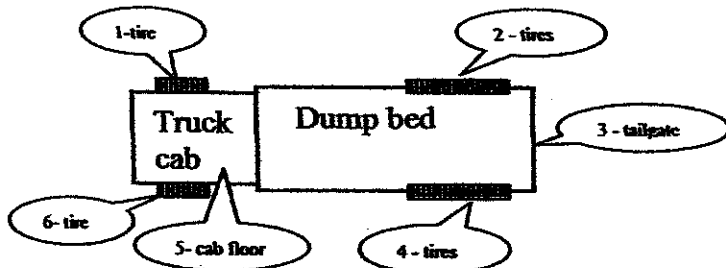
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511913

24 519386

| | | |
|--------------------------------|------------------|---------------------|
| SITE 01 | TICKET 587742 | GRID 0000 |
| WEIGHMASTER PC000080 GINA J | | |
| DATE IN 4 September 2007 | | TIME IN 2:15 am |
| DATE OUT 4 September 2007 | | TIME OUT 2:14 am |
| VEHICLE Y511913 | | ROLL OFF |
| REFERENCE 0550967 | ORIGIN | |

Gross Weight 89,020.00 lb
Tare Weight 37,200.00 lb
Net Weight 45,820.00 lb 22.91 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.91 | TN | SW-COFT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

K. E. S.



NON-HAZARDOUS WASTE MANIFEST

0550987

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3666 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3666 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name J. DeGriever Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 303-273-3666 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Hazardous b. c. d. | | 17. Allied Waste Approval # and Exp. Date CU 107 070601 15-11-915 | | 18. Containers No. Type 18 4 | |
| | | | | 19. Total Quantity Y-Yards T-Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature [Signature] | | Month Day Year 9/1/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 09/04/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

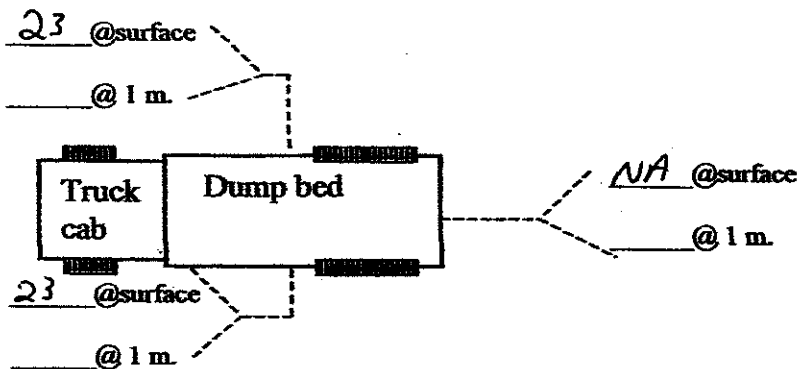
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1403 Surveyed by: CHicks, J Mathson
 Trucking Company: Grene Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

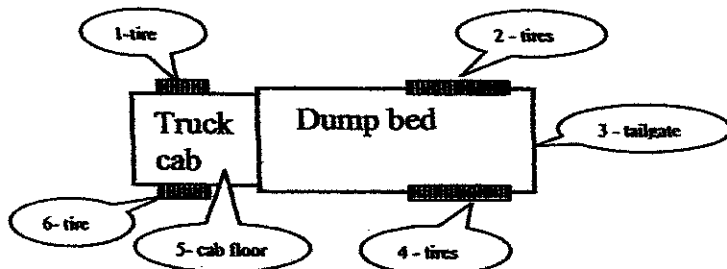
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550970

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St. Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Ditch St. Golden, CO 80401 303-273-3698 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1600 Illinois St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | 0016707003-1511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums | | | | | |
| 20. Unit 0 Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 11/1/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Robert Collier Lopez | | Signature | | Month Day Year 09/04/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519395

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 089751 | 0000 |
| WEIGHMASTER | | |
| ADDC080 Sine C | | |
| DATE IN | | TIME IN |
| 4 September 2007 | | 2:32 pm |
| DATE OUT | | TIME OUT |
| 4 September 2007 | | 2:32 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0550470 | | |

CO Gross Weight 81,100.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 45,400.00 lb 22.70 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.70 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



ALLIED WASTE



NON-HAZARDOUS WASTE MANIFEST

0550970

Please print or type

| | | | | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|--|--------------------|--|-----------------|--|------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 ACCOMPLISHMENT (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Normal Soil | | | 17. Allied Waste Approval # and Exp. Date 00157030000 - 12/15/15 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | | No. Type | | D-Drums 8 Gallons | | Y-Yards T-Tons | | | |
| b. | | | | | | | | | | | | |
| c. | | | | | | | | | | | | |
| d. | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | |
| Printed/Typed Name Steve Benken | | | Signature | | | | Month 1 | | Day 4 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | |
| Printed/Typed Name Robert Collier Lopez | | | Signature | | | | Month 09 | | Day 04 | | Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | Signature [Signature] | | | | Month | | Day | | Year 07 | |

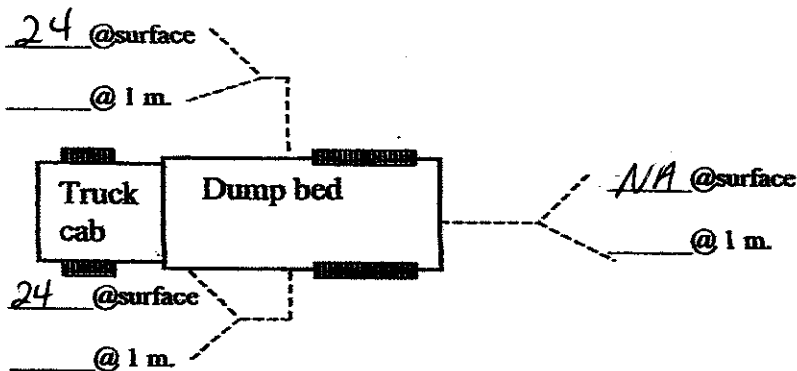
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1415 Surveyed by: CHicks, J Mattson
 Trucking Company: Grove Truck license plate no./state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

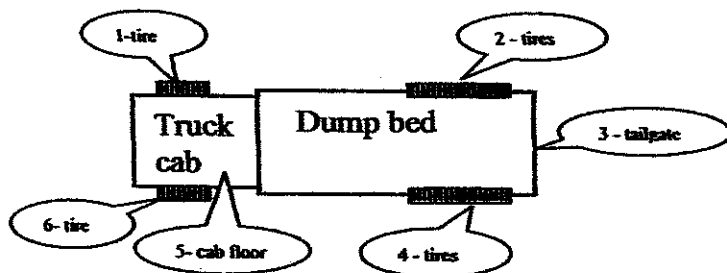
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550971

Please print or type:

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Birch St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Birch St Golden, CO 80401 ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Asbestos | | CO18707500 1511915 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 7 7 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 7 7 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519405

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contractor: YB11915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 889762 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 2:41 pm |
| DATE OUT 4 September 2007 | | TIME OUT 2:42 pm |
| VEHICLE YB11915 | | ROLL OFF |
| REFERENCE YB11915 | ORIGIN | |

CB Gross Weight 33,540.00 lb
 Tire Weight 34,400.00 lb
 Net Weight 49,140.00 lb 24.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.57 | TN | 80-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550971

Please print or type.

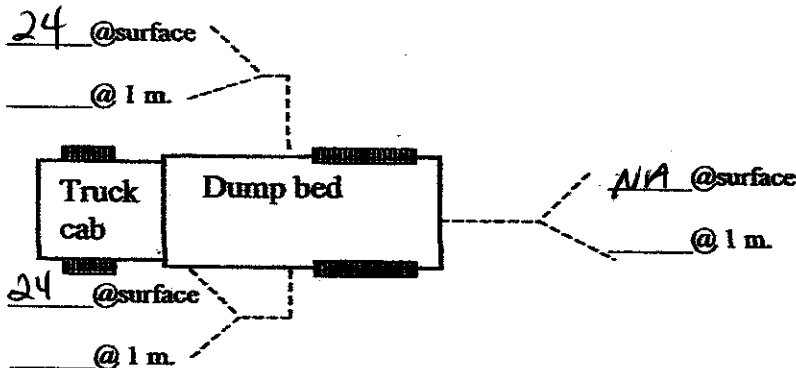
| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 303-273-3908 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Asym Soil | | 2018/07/0001511915 | | 19. Total Quantity 6 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Brimmer | | | | Signature: [Signature] Month: 7 Day: 12 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: 7 Day: 12 Year: 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |

TRANSPORTER #1

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1432 Surveyed by: CHicks, J Mattson
 Trucking Company: Grove Truck license plate no./state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

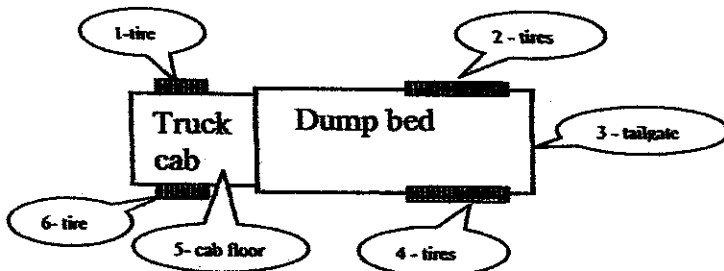
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550972

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | |
|--|------|---|---|---|--|-----|------|--------------------|-----------------|--|--|---------|---------|--|--|---------|--------|
| 3. Generator's Name and Mailing Address 1600 Wilcox St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1600 Wilcox St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | |
| a. Norm Soil | | CC 157-0709-16-11015 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>5 Drums</td> <td>5 Drums</td> </tr> <tr> <td></td> <td></td> <td>Y Yards</td> <td>T Tons</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 5 Drums | 5 Drums | | | Y Yards | T Tons |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | |
| | | 5 Drums | 5 Drums | | | | | | | | | | | | | | |
| | | Y Yards | T Tons | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 4 Year 97 | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 1 Day 1 Year 97 | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519410

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806503
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contractor: 7511915

| | | |
|-------------------------------|------------------|---------------------|
| SITE 01 | TICKET 587767 | GRID 0000 |
| WEIGHMASTER H000060 SINA C | | |
| DATE IN 4 September 2007 | | TIME IN 2:49 pm |
| DATE OUT 4 September 2007 | | TIME OUT 2:49 pm |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 0850872 | ORIGIN | |

03 Gross Weight 82,600.00 lb
 Tare Weight 36,780.00 lb Inbound --
 Net Weight 45,820.00 lb 22.81 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.81 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550972

Please print or type

| | | | | | |
|--|--|---|---|--------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3900 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. North Soil | | 2015/070900-1511015 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | Signature [Signature] Month Day Year 7/1/01 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | Signature [Signature] Month Day Year 7/1/01 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature Month Day Year | | |

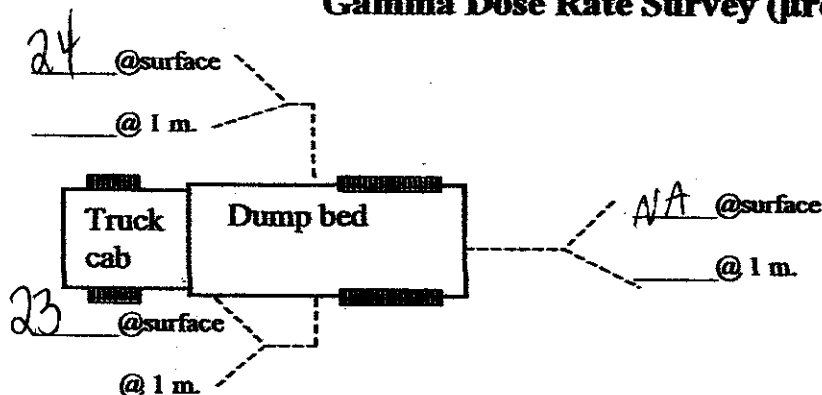
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1440 Surveyed by: CHicks, J Mattson
 Trucking Company: Grene Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10 mrem/hr, survey is complete.)

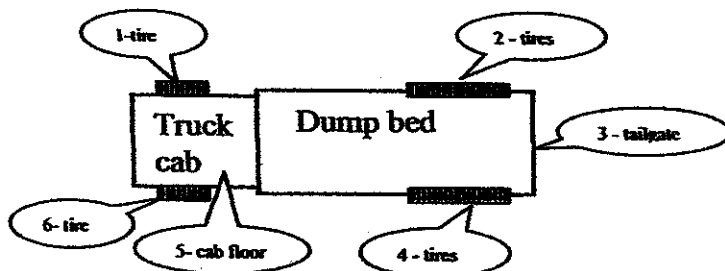
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550979

Please print or type.

| | | | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|--------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6000 Hwy 95 Golden, CO - ACCOUNT # 00000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | | | |
| | | | | No. | Type | | | | | |
| a. Norm Soil | | 00-167070003 Y511015 | | | | Y-Yards | T-Tons | | | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 1 | Day 4 | Year 07 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name MARK PHELAN | | Signature | | Month 9 | Day 11 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

513413

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1540 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 589770 | 0000 |
| WEIGHMASTER | | |
| R000080 BIN# C | | |
| DATE IN | | TIME IN |
| 4 September 2007 | | 2:56 pm |
| DATE OUT | | TIME OUT |
| 4 September 2007 | | 2:56 pm |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0530979 | | |

Gross Weight 85,900.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 50,800.00 lb 24.40 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.40 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550979

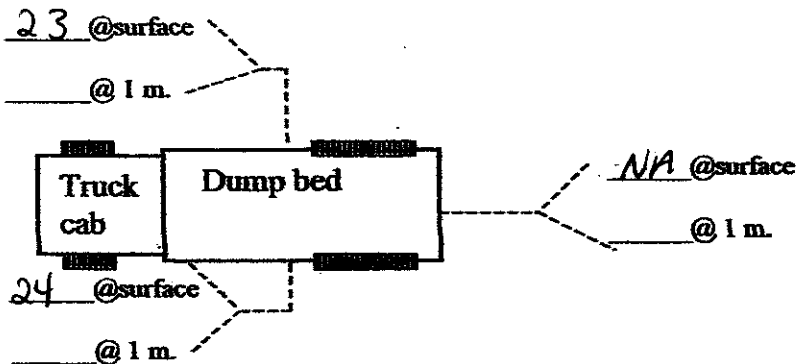
↓ GENERATOR

COM00003

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1450 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

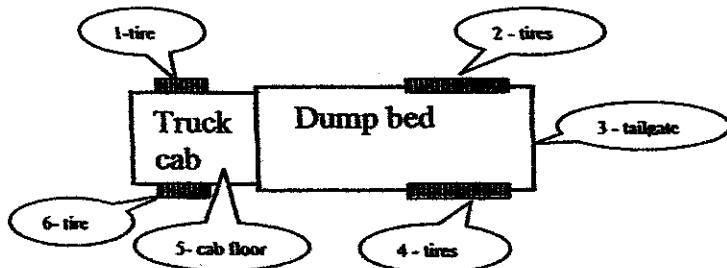
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550978

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colonel School of Mines Research Institute 1500 Minor St Golden, CO 80401 303-275-3000 | | | | 5. Generating Location (if different from 3) Colonel School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-275-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address ExxonMobil 3400 Hwy 93 Golden, CO ACCOUNT # 800003 Colonel School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. <u>None Soil</u> | | COLLEGE 070908 Y511915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name <u>Steve Brown</u> | | Signature <u>[Signature]</u> | | Month Day Year 11 4 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name <u>Chuck Foy</u> | | Signature <u>[Signature]</u> | | Month Day Year 11 9 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

019417

FOOTHILL LANDFILL
8900 HIGHWAY 78
GOLDEN
CO
80603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y311915

| | | |
|------------------------------|------------------|---------------------|
| SITE 71 | TICKET 387774 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 3:07 pm |
| DATE OUT 4 September 2007 | | TIME OUT 3:07 pm |
| VEHICLE Y311915 | | ROLL OFF |
| REFERENCE 0050778 | ORIGIN | |

Gross Weight 53,250.00 lb
Tare Weight 56,540.00 lb
Net Weight 46,720.00 lb 23.36 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.36 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Handwritten Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550970

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3093 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3093 | | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description Iron Sulf | | 19. Total Quantity 10 Drums | | 20. Unit Wt/Vol Tons | |
| a. | | b. | | c. | |
| d. | | e. | | f. | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature [Signature] | | Month Day Year 1 4 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature [Signature] | | Month Day Year 1 9 0 7 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

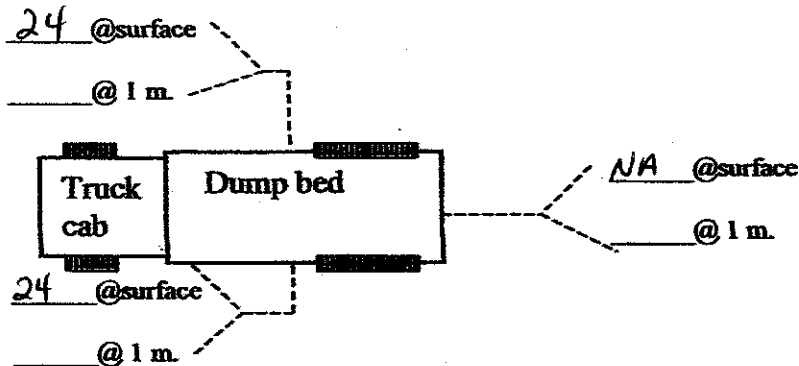
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1457 Surveyed by: CHicks, J Mattson

Trucking Company: Greene Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

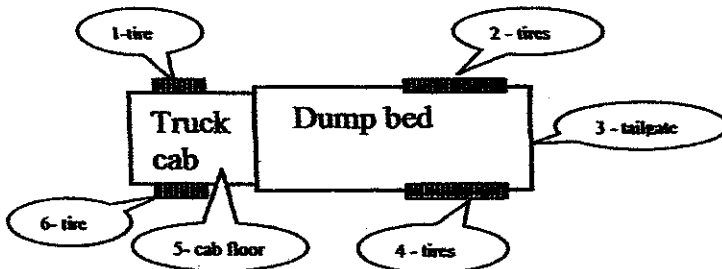
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550977

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Black St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Black St Golden, CO 80401 (4000 ft) # 1511015 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO 687 07/000 1511015 | | 19. Total Quantity Y-Yards | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Scott H. Vargas | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519422

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589777 | GRID 0000 |
| WEIGHMASTER | | |
| FC000080 DINA C | | |
| DATE IN 4 September 2007 | | TIME IN 3:15 pm |
| DATE OUT 4 September 2007 | | TIME OUT 3:15 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550977 | ORIGIN | |

Gross Weight 80,060.00 lb
 Tare Weight 35,640.00 lb Inbound -
 Net Weight 44,420.00 lb 22.21 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.21 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature] 9-4-07



NON-HAZARDOUS WASTE MANIFEST

0550977

Please print or type.

| | | | | | | | | | | |
|--|--|---|--|--|------|--------------------|-----------------|-------|-----|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Footprint Landfill 13500 Hwy 30 Golden, CO 80401 (School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | | | |
| | | | | No. | Type | Drums | Caltons | | | |
| a. Norm Soil | | CO 167 (75908) Y511915 | | | 15 | Yards | Tons | | | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Reinman | | | | Signature | | Month | Day | Year | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name Santhosha Vargas | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year | | |

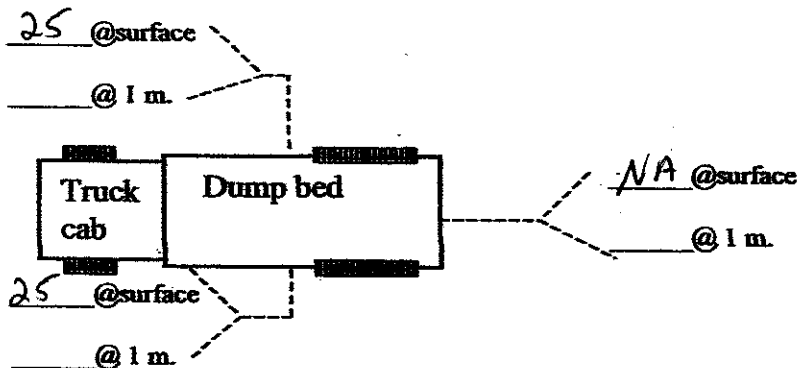
TRANSPORTER #1

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1506 Surveyed by: CHicks, J Mathson
 Trucking Company: Grove Truck license plate no./state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

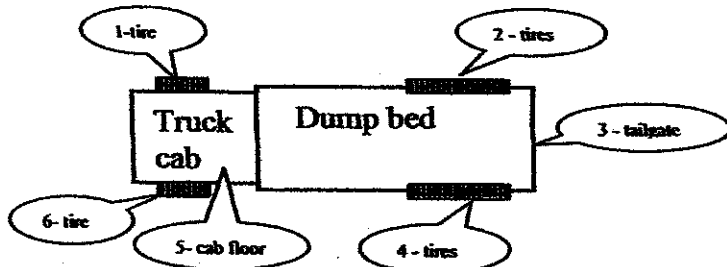
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 1.7 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



76

NON-HAZARDOUS WASTE MANIFEST

0550976

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|--|--|----------|------------|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3896 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3896 | | | | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>20 Drums</td> <td>10 Gallons</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 20 Drums | 10 Gallons |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | |
| | | 20 Drums | 10 Gallons | | | | | | | | | | |
| a. Atom Bomb | | CO 157 076008 VS 1101E | | 7-Yards 7-Tons | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve Bergerman | | Signature [Signature] | | Month Day Year 9/11/07 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name Fernando Lopez | | Signature [Signature] | | Month Day Year 9/18/07 | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519425

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960608
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 389782 | GRID 6000 |
| WEIGHMASTER | | |
| PC000080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 3:21 pm |
| DATE OUT 4 September 2007 | | TIME OUT 3:21 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0550776 | ORIGIN | |

Gross Weight 81,260.00 lb
Tare Weight 36,580.00 lb
Net Weight 44,680.00 lb 22.34 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.34 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550976

Please print or type.

| | | | | | |
|---|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 (303-273-3998) | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 (303-273-3998) | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Facility's Location 9000 Hwy 103 Golden, CO 80401 (303-273-3998) (School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | 21. Additional Descriptions for Materials Listed Above | |
| | | | | 22. Special Handling Instructions and Additional Information | |
| | | | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

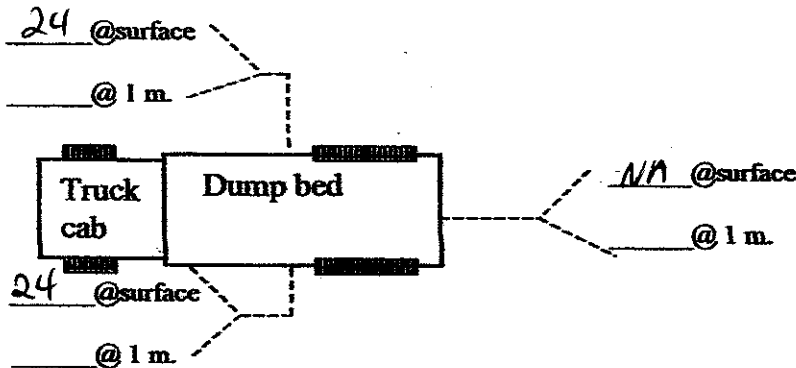
EDM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1514 Surveyed by: CHicks, J Mattson

Trucking Company: Greene Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

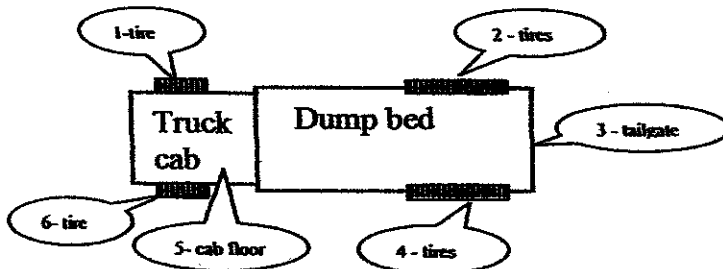
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550975

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3906 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name G... H... | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 8000 Hwy 90 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Sol | | CO 07 07000 VS 11915 | | 19. Total Quantity G-Dumps Y-Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 7 8 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name ... | | Signature | | Month Day Year 7 8 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

510427

FOOTHILLS LANDFILL
8900 HIGHWAY 70
GOLDEN
CO
920603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

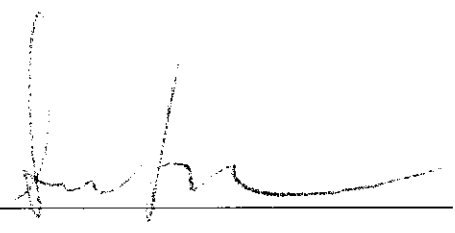
Contract: YE1191E

| | | | | | |
|------------------------------|--|------------------|--------|---------------------|--|
| SITE 01 | | TICKET 559784 | | GRID 0000 | |
| WEIGHMASTER | | | | | |
| PC000060 OINA C | | | | | |
| DATE IN 4 September 2007 | | | | TIME IN 3:27 PM | |
| DATE OUT 4 September 2007 | | | | TIME OUT 3:27 PM | |
| VEHICLE YE1191E | | | | ROLL OFF | |
| REFERENCE 0550975 | | | ORIGIN | | |

GS Gross Weight 24,150.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 42,450.00 lb 23.24 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0550975

Please print or type.

| | | | | | |
|--|--|--------------------------|--|---|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 | |
| 4. Phone () 303-279-3606 | | | | 6. Phone () 303-279-3606 | |
| 7. Transporter #1 Company Name G. H. H. | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description a. Normal Soil | | | 17. Allied Waste Approval # and Exp. Date CO18707000 Y51915 | | 18. Containers No. Type 15 |
| b. | | | | | 19. Total Quantity 0 Drums 0 Gallons 1 Yards 1 Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | Signature | | Month Day Year 11 14 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Brinkman | | | Signature | | Month Day Year 11 14 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Steve Brinkman | | | Signature | | Month Day Year 11 14 97 |

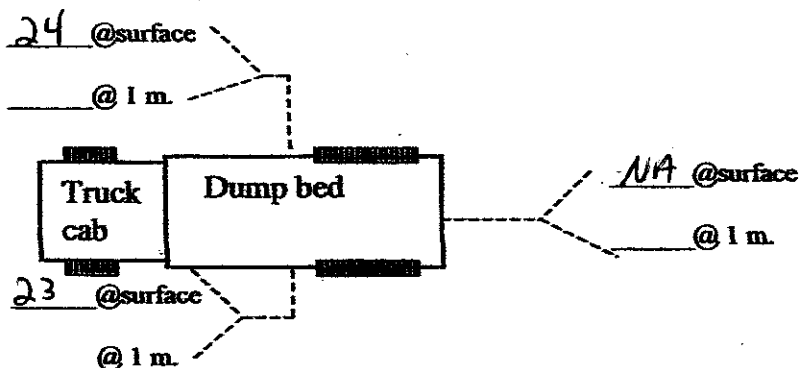
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1527 Surveyed by: CHicks, J Mathson
 Trucking Company: Grove Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

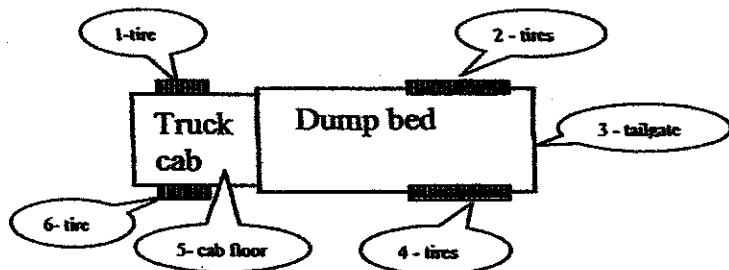
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |

24 519434

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|--------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589791 | GRID 0000 |
| WEIGHMASTER AC000080 CINA C | | |
| DATE IN 4 September 2007 | | TIME IN 3:42 pm |
| DATE OUT 4 September 2007 | | TIME OUT 3:42 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0550973 | ORIGIN | |

GS Gross Weight 87,100.00 lb
 Tare Weight 37,200.00 lb Inbound -
 Net Weight 49,900.00 lb 24.95 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.95 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

Kear



NON-HAZARDOUS WASTE MANIFEST

0550973

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3988 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3988 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Joe Grievetrucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO - School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Iron Ore | | 17. Allied Waste Approval # and Exp. Date 0007070003 1511815 | | 18. Containers No. Type 18 Y | |
| b. | | | | 19. Total Quantity Y Yards | |
| c. | | | | 20. Unit Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature <i>[Signature]</i> | | Month Day Year 7 4 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature <i>[Signature]</i> | | Month Day Year 09 04 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

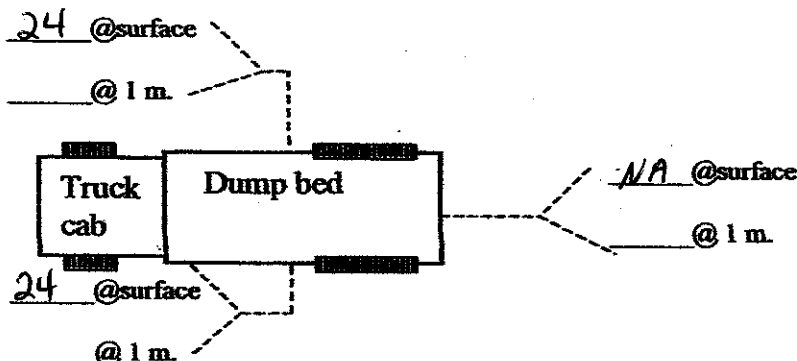
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1535 Surveyed by: CHicks, J Mathson
 Trucking Company: Griene Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

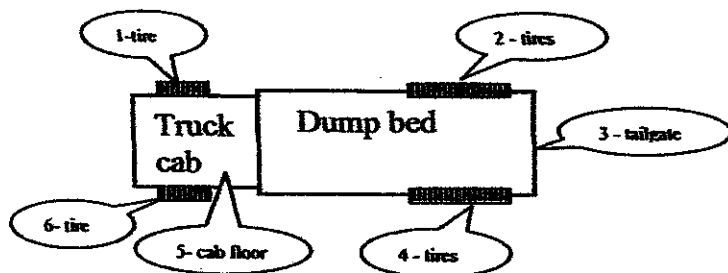
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550874

Please print or type.

| | | | | | | | |
|--|--|---|----------------------|---|----------------------------|--------------------------|-------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Blake St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 1500 Hwy 30 Golden, CO 80401 AUXILIARY # 660000 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit |
| | | | | No. Type | | Ct. Owners | Ct. Gallons |
| a. Non-Hazardous | | CO LET 670000-511915 | | 18 | | Y-Yards | T-Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name: Steve Benkman | | | | Signature: [Signature] | | Month Day Year: 7/4/24 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: Rafael Lopez | | | | Signature: [Signature] | | Month Day Year: 07/04/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month Day Year: | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month Day Year: | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

018440

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 940608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589797 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 3:52 pm |
| DATE OUT 4 September 2007 | | TIME OUT 3:52 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0550974 | ORIGIN | |

Gross Weight 64,760.00 lb
 Tare Weight 33,700.00 lb
 Net Weight 47,060.00 lb 24.53 TN

Incurred -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.53 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550874

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Broad Golden, CO 80401 303-273-3098 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous Solid | | 20167 07/009 - 511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Drums | | | | | |
| 20. Unit Wt/Vol Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Brinkman | | | | Signature: [Signature] | |
| | | | | Month Day Year 7 4 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Rafael Olazo Lopez | | | | Signature: [Signature] | |
| | | | | Month Day Year 07 04 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year 7 4 07 | |

TRANSPORTER #1

COM000003

9/4/07

Truck Departure Record Form

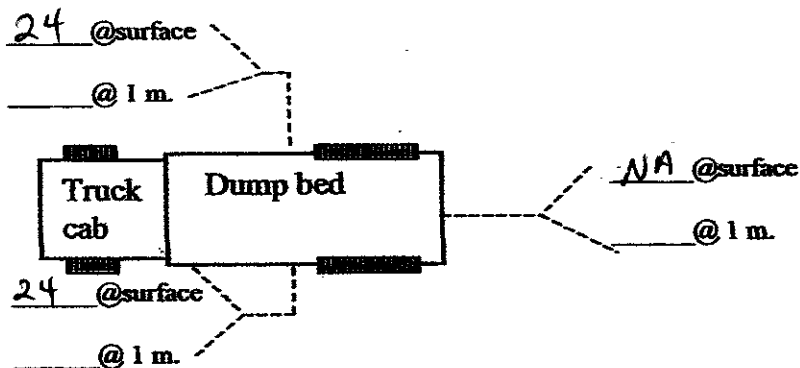
| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|--------|---------|----------|----------------------------|------|
| Grieve 8 | 9/4/07 | 0945 | 0958 | 18 | 82.9 |
| Grieve 12 | | 0950 | 1004 | | 86.8 |
| Grieve 24 | | 0955 | 1010 | | 83.2 |
| Collazo 13 | | 1015 | 1029 | | 81.8 |
| Marguez 961 | | 1035 | 1045 | | 79.2 |
| Ruiz 95 | | 1035 | 1049 | | 77.6 |
| JO 04 | | 1050 | 1055 | | 83.1 |
| Grieve 23 | | 1050 | 1059 | | 82.8 |
| Marguez 96 | | 1055 | 1105 | | 83.8 |
| Grieve 8 | | 1100 | 1111 | | 77.6 |
| Grieve 12 | | 1105 | 1116 | | 83.6 |
| Grieve 24 | | 1110 | 1121 | | 83.8 |
| Collazo 13 | | 1130 | 1143 | | 81.3 |
| Marguez 961 | | 1140 | 1200 | | 78.1 |
| Ruiz 95 | | 1145 | 1203 | | 80.8 |
| JO 04 | | 1200 | 1209 | | 80.2 |
| Grieve 23 | | 1205 | 1214 | | 76.0 |
| Grieve 8 | | 1210 | 1221 | | 79.7 |
| Grieve 12 | | 1215 | 1227 | | 83.6 |
| Marguez 96 | | 1220 | 1232 | | 84.5 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0958 Surveyed by: CHicks, J Mathson

Trucking Company: Greene Truck license plate no./state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

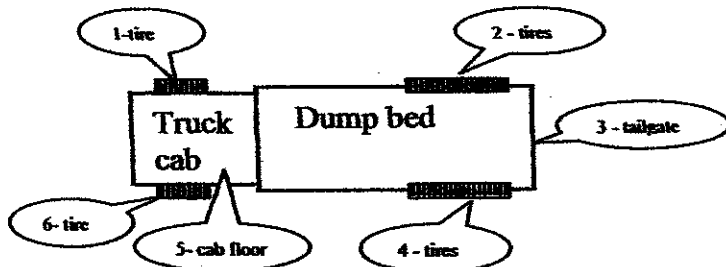
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554501

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|--|-------------------------------|----------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3540 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3540 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Birch St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Normal Soil | | 17. Allied Waste Approval # and Exp. Date 031870702 051915 | | 18. Containers | | 19. Total Quantity Y-Yards | 20. Unit WT/Vol Tons | |
| | | | | No. Type | | | | |
| | | | | 18 4 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Johnson | | | | Signature | | Month 1 | Day 2 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature | | Month 07 | Day 01 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519183

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
80603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 229508 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 10:17 am |
| DATE OUT 4 September 2007 | | TIME OUT 10:17 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0534501 | ORIGIN | |

CG Gross Weight 82,900.00 lb
Tare Weight 36,540.00 lb Inbound -
Net Weight 46,360.00 lb 23.18 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.18 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554501

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Bruce St. Golden, CO 80401 303-273-3006 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3006 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 5800 Hwy 50 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 1500 Bruce St | | CO 107 07/07/06 YR11915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0.00 tons | | | | | |
| 20. Unit Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve [Signature] | | [Signature] | | 7 0 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | [Signature] | | 09 04 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

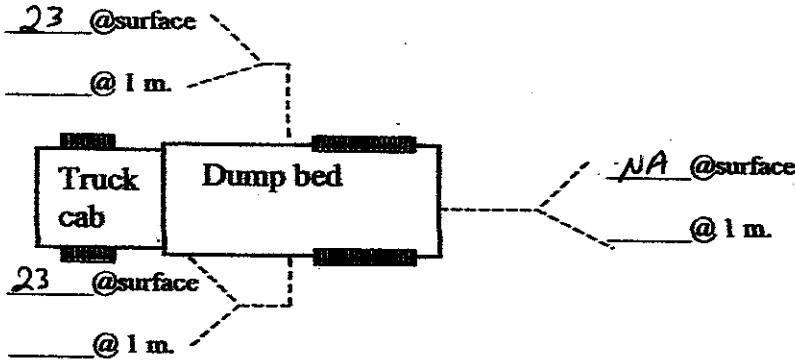
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1004 Surveyed by: CHicks, J Mattson
 Trucking Company: Greene Truck license plate no./state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

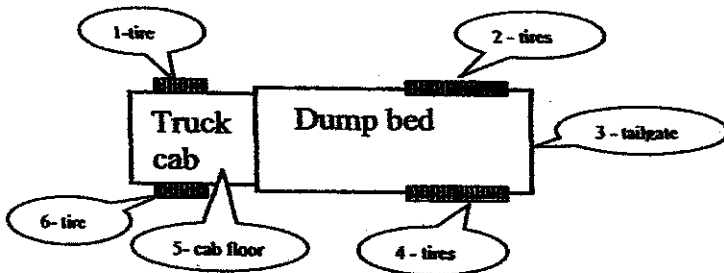
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554502

Please print or type.

| | | | | | |
|--|--|---|--|--------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Lodge School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-473-1000 | | | 5. Generating Location (if different) Lodge School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1000 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name Green Trucking H/D | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Lodge School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Normal Soil | | 30 DAY EXPIRATION 12/15/15 | | 19. Total Quantity 10 Drums | |
| b. | | | | 20. Unit 10 Drums | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve D. Brown | | Signature | | Month Day Year 7 21 17 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve D. Brown | | Signature | | Month Day Year 7 21 17 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519189

12

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y51191E

| | | |
|------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 589544 | 0001 |
| WEIGHMASTER | | |
| E000050 GINA C | | |
| DATE IN | TIME IN | |
| 4 September 2007 | 10:23 am | |
| DATE OUT | TIME OUT | |
| 4 September 2007 | 10:27 am | |
| VEHICLE | ROLL OFF | |
| Y51191E | | |
| REFERENCE | ORIGIN | |
| 0554502 | | |

Gross Weight 56,800.00 lb
 Tare Weight 37,700.00 lb Inbound -
 Net Weight 49,100.00 lb 24.55 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.55 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0554502

Please print or type

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Green Trucking, Inc. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Norm Mel | | 17. Allied Waste Approval # and Exp. Date CO 607070006 11/15/15 | | 18. Containers No. Type | |
| b. | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| c. | | | | 20. Unit Wt/Vol Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 7 27 11 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Cline | | Signature | | Month Day Year 7 27 11 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Allied Waste | | Signature | | Month Day Year 7 27 11 | |

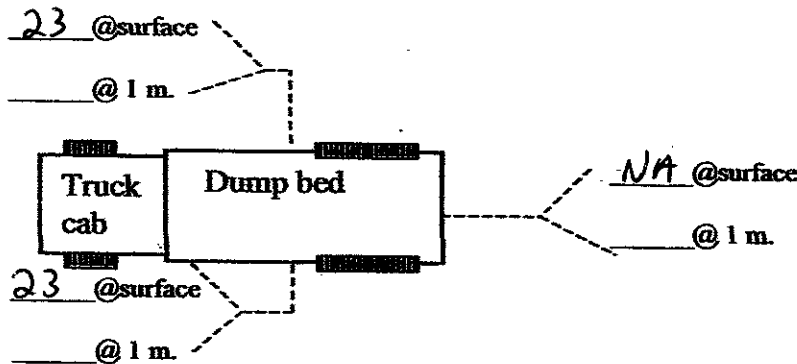
TRANSPORTER #1

00000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1010 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

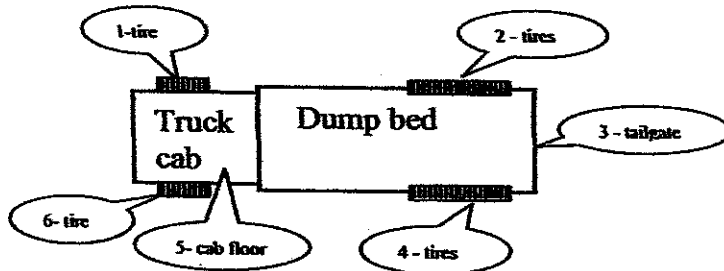
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 70
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

24 5:19:38

| | | |
|-------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589531 | GRID 0000 |
| WEIGHMASTER RC00050 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 10:31 am |
| DATE OUT 4 September 2007 | | TIME OUT 10:32 am |
| VEHICLE YS11915 | | ROLL OFF |
| REFERENCE 0534506 | ORIGIN | |

OS Gross Weight 83.160.00 lb
 Tare Weight 37.200.00 lb Inbound -
 Net Weight 45.960.00 lb 22.98 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.98 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

Ken S



NON-HAZARDOUS WASTE MANIFEST

0554503

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-5908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-5908 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Bulk Vol | | 20107020001041015 | | 18 Y Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. Smith | | Signature [Signature] | | Month Day Year 1 2 2 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name KENS KARNON | | Signature [Signature] | | Month Day Year 01 04 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

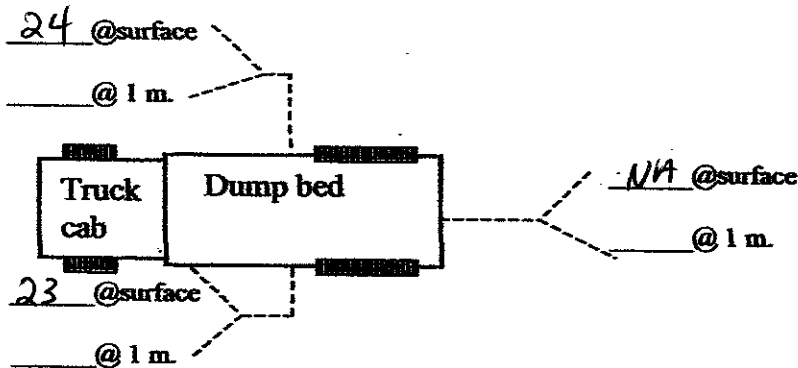
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1029 Surveyed by: CHicks, J Mathson
 Trucking Company: Griene Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

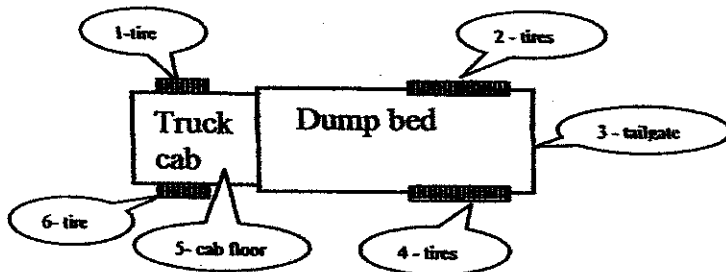
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554504

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Bluffs St. Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Platte St. Golden, CO 80401 303-273-3906 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 6600 Hwy 93 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Hom. Soil | | CO 187 070001 Y511015 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Yards | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Blum | | Signature | | Month Day Year 11/1/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name David Colino Lopez | | Signature | | Month Day Year 09/09/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

604600083

513214

FOOTHILLS LANDFILL
 8900 HIGHWAY 70
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|------------------------------|--|------------------|----------------------|--------------|--|
| SITE 01 | | TICKET 589570 | | GRID 0000 | |
| WEIGHMASTER | | | | | |
| P000080 GINA C | | | | | |
| DATE IN 4 September 2007 | | | TIME IN 10:50 am | | |
| DATE OUT 4 September 2007 | | | TIME OUT 10:50 am | | |
| VEHICLE Y511915 | | | ROLL OFF | | |
| REFERENCE 0534504 | | ORIGIN | | | |

Gross Weight 83,020.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net weight 47,320.00 lb 23.66 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.66 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



13

NON-HAZARDOUS WASTE MANIFEST

0554504

Please print or type.

| | | | | | |
|--|--|--------------------------|---|---|--------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Garden, CO 80401 303-273-3956 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3956 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Garden, CO 80401 Colorado School of Mines | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| a. Normal Soil | | | CO L67 07007 1511915 | | 19. Total Quantity 18 Drums |
| b. | | | | | 20. Unit Wt/Vol 1-Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkman | | | Signature | | Month Day Year 12/01/07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Robert Collozo Lopez | | | Signature | | Month Day Year 09/01/07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

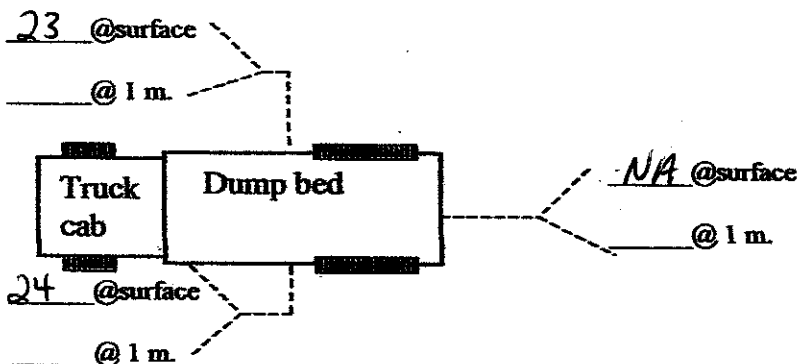
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1045 Surveyed by: CHicks, J Mathson
 Trucking Company: Grene Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

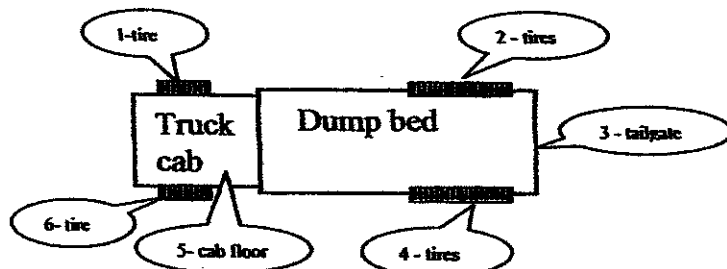
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 1.7 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554505

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1800 Illinois St Golden, CO 80401 303-272-3998 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-272-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 8500 Hwy 57 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 05107 030000 151115 | | 19. Total Quantity 0 Drums 0 Gallons | |
| b. | | | | 20. Unit Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Schmitt | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Dennis W. Jones | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760602
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7511915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 587525 | GRID 0000 |
| WEIGHMASTER | | |
| R000030 Gino C | | |
| DATE IN 4 September 2007 | | TIME IN 11:05 am |
| DATE OUT 4 September 2007 | | TIME OUT 11:06 am |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 0554305 | ORIGIN | |

Gross Weight 51,780.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 17,380.00 lb 23.67 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.67 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0554505

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | |
|--|------|---|--|---|--|-----|------|--------------------|-----------------|--|--|---------|-----------|--|--|---------|------|
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | |
| a. Norm Soil | | 071167 070000 1511215 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>0-Drums</td> <td>0-Gallons</td> </tr> <tr> <td></td> <td></td> <td>Y-Yards</td> <td>Tons</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 0-Drums | 0-Gallons | | | Y-Yards | Tons |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | |
| | | 0-Drums | 0-Gallons | | | | | | | | | | | | | | |
| | | Y-Yards | Tons | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: Steve S. Adams | | | | Signature: [Signature] Month: Day: Year: | | | | | | | | | | | | | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: Day: Year: | | | | | | | | | | | | | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | | | | | | | | | | | | | |

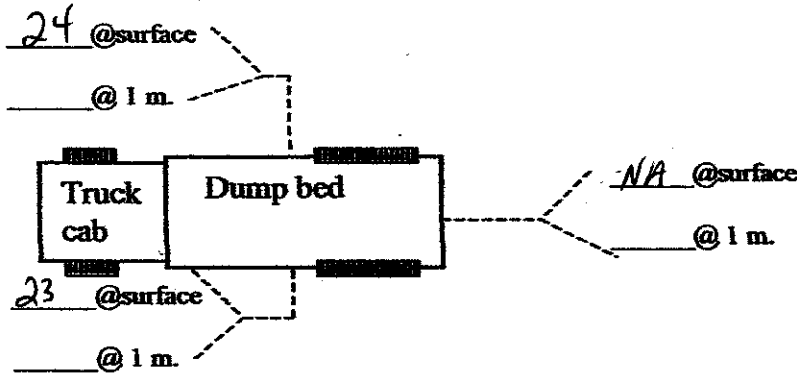
TRANSPORTER #1

60M000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1049 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

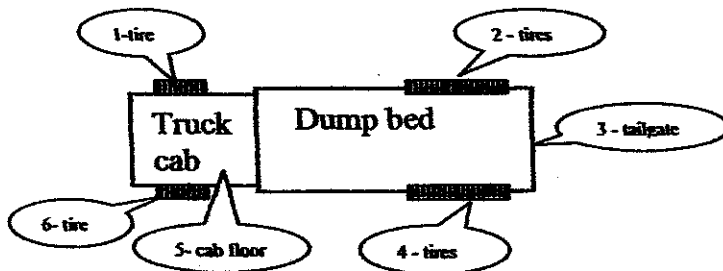
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554506

Please print or type.

| | | | | | |
|--|--|---|--|--|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-7000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 17th and Birch St. Golden, CO 80401 303-273-7000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 2200 Hwy 30 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. | Type |
| a. Norm Soil | | CC 187 070900 151 1915 | | 19. Total Quantity 2 Drums | 20. Unit Wt/Vol 5-Drums |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name <i>Steve S. Higgins</i> | | | | Signature <i>[Signature]</i> | |
| | | | | Month Day Year 7 1 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name <i>Mark [unclear]</i> | | | | Signature <i>[Signature]</i> | |
| | | | | Month Day Year 7 1 01 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

CCM000033

518234

FOOT HILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO

760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|----------------------|--------------|
| SITE 01 | TICKET 589590 | GRID 0000 |
| WEIGHMASTER | | |
| SC00080 BINA C | | |
| DATE IN 4 September 2007 | TIME IN 11:12 am | |
| DATE OUT 4 September 2007 | TIME OUT 11:11 am | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 0534504 | ORIGIN | |

OS Gross Weight 77,200.00 lb
Tare Weight 36,980.00 lb
Net Weight 40,220.00 lb 21.11 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.11 | TN | SA-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554506

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1600 Illinois St Golden, CO 80401 303-273-3306 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3306 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | CO 167 070003 511015 | | 19. Total Quantity 2 Drums 20. Unit Gallons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve E. Brown | | Signature | | Month Day Year 2 21 99 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark | | Signature | | Month Day Year 2 21 99 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

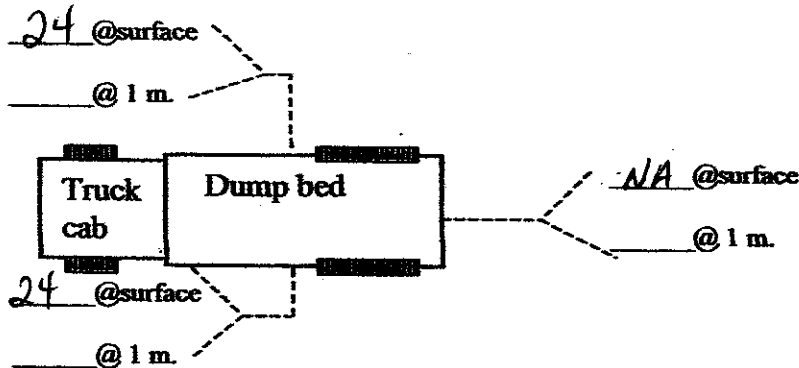
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1055 Surveyed by: CHicks, J Mathson
 Trucking Company: Griener Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

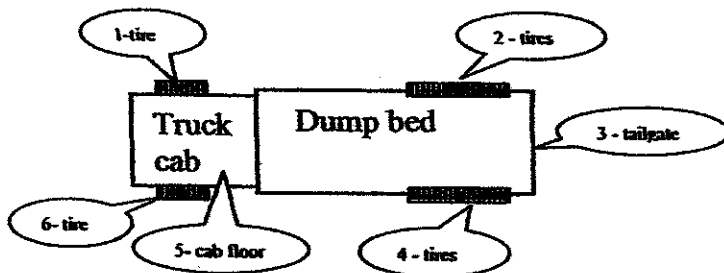
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554507

Please print or type.

| | | | | | |
|---|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Maple St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Maple St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | 21. Additional Descriptions for Materials Listed Above | |
| | | | | 22. Special Handling Instructions and Additional Information | |
| | | | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

000000033

520227

FOOTHILL LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
806403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915


| | | |
|------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 589574 | 0000 |
| WEIGHMASTER | | |
| RECO060 GINA C | | |
| DATE IN | TIME IN | |
| 4 September 2007 | 11:14 am | |
| DATE OUT | TIME OUT | |
| 4 September 2007 | 11:14 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0554507 | | |

Gross Weight 77,600.00 lb
Tare Weight 35,640.00 lb
Net Weight 41,960.00 lb 20.98 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.98 | TN | SW-COAT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE  9-4-07

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0554507

Please print or type:

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1700 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 4001 E. 1st Ave. S Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Num Soil | | CO18707000 / 511011 | | 19. Total Quantity 16 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 10 24 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargas | | Signature | | Month Day Year 10 24 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 10 24 07 | |

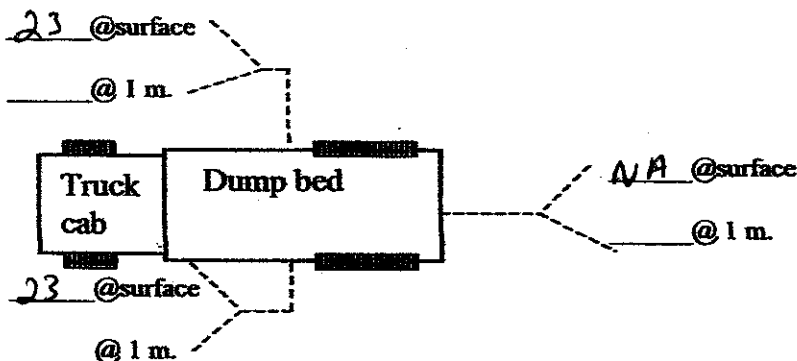
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1059 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

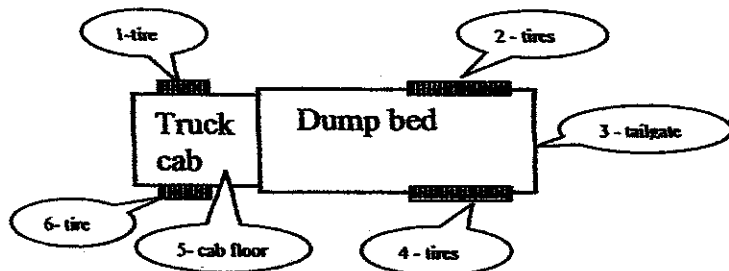
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554508

Please print or type

| | | | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|------|--------------------|-----------------|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1575 Illinois St Golden, CO 80401 303-273-1000 | | | | 5. Generating Location (if different) North West of 12th and Birch St Golden, CO 80401 303-273-1000 | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 8300 Hwy 67 Golden, CO 80401 (School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | | No. | Type | | | |
| a. Non Sol | | | 0515151515 | | | | 7-Yards | 4-Tons | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name: Steve Bertram | | | | | Signature: [Signature] | | Month: 8 | Day: 24 | Year: 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name: Mark Phelan | | | | | Signature: [Signature] | | Month: 8 | Day: 24 | Year: 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name: | | | | | Signature: | | Month: | Day: | Year: |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name: | | | | | Signature: | | Month: | Day: | Year: |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519242

FOOT-HILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 559578 | GRID 0000 |
| WEIGHMASTER | | |
| R0000000 0JNA C | | |
| DATE IN 4 September 2007 | | TIME IN 11:16 am |
| DATE OUT 4 September 2007 | | TIME OUT 11:18 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0534508 | ORIGIN | |

Gross Weight 83,080.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 47,980.00 lb 23.99 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.99 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]

Please print or type.

| | | | | | |
|--|--|--|--------------|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute North West of 120 th and Birch St. Golden, CO 80401 303-273-3300 | | | | | |
| 5. Generating Location (if different) | | | | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Aurora Refining & Chemical Co. (Specialty Services of Aurora) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Nitric Acid | | 17. Allied Waste Approval # and Exp. Date 03/17/2006 - 11/15/15 | | 18. Containers No. Type | |
| | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| | | | | 20. Unit Wt/Vol Tons | |
| | | | | | |
| | | | | | |
| | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Brinkman | | Signature: [Signature] | | Month Day Year 8 20 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Mark Phelan | | Signature: [Signature] | | Month Day Year 9 9 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: [Name] | | Signature: [Signature] | | Month Day Year 9 1 07 | |

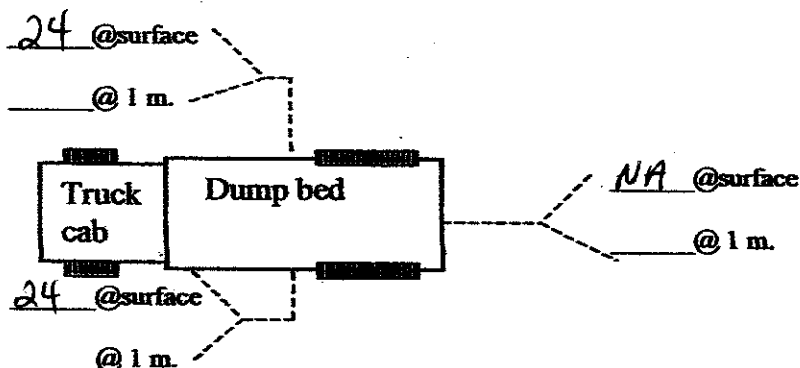
TRANSPORTER #1

COMODO®

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1105 Surveyed by: CHicks, J Mathson
 Trucking Company: Griew Truck license plate no./state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

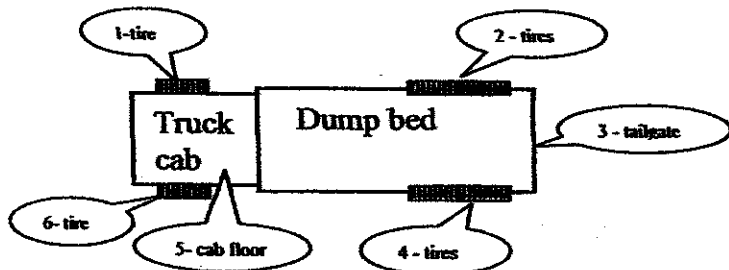
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554509

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Golden, CO 80401 303-773-0000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 ADCO (Auriferous Deposits Company) (Auriferous Deposits Company) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non Soil | | CO 187 07268 1011015 | | 19. Total Quantity 1 Drums | |
| b. | | | | 20. Unit 1 Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | | | Signature [Signature] Month Day Year 7 27 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 7 27 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

RCRM000033

519138

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|------------------|--|--------|--------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | E8961E | | 0000 | |
| WEIGHMASTER | | | | | |
| P.0000000 SINA C | | | | | |
| DATE IN | | | | TIME IN | |
| 4 September 2007 | | | | 11:50 am | |
| DATE OUT | | | | TIME OUT | |
| 4 September 2007 | | | | 11:50 am | |
| VEHICLE | | | | ROLL OFF | |
| YE1191E | | | | | |
| REFERENCE | | | ORIGIN | | |
| 0834209 | | | | | |

Gross Weight 77,660.00 lb
 Tare Weight 36,580.00 lb Inbound --
 Net Weight 41,080.00 lb 20.54 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.54 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0554509

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address P.O. Box 21 Golden, CO 80401 303-273-3966 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Bronco Golden, CO 80401 303-273-3966 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address P.O. Box 103 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO 127070001051096 | | 19. Total Quantity 0 Yards | |
| b. | | | | 20. Unit Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. [Signature] | | Signature [Signature] | | Month Day Year 11 21 11 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 7 11 11 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

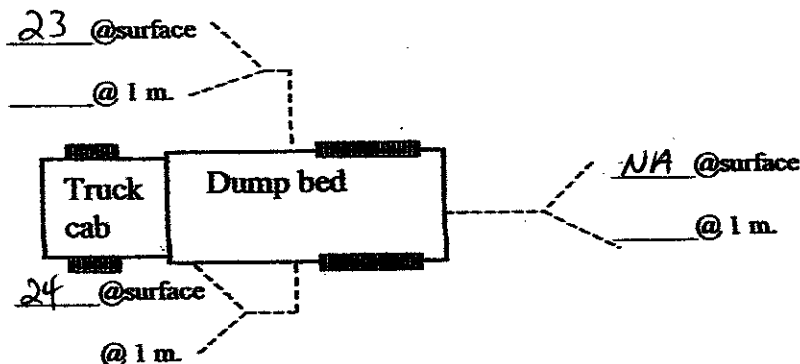
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1111 Surveyed by: CHicks, J Mathson
 Trucking Company: Grove Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

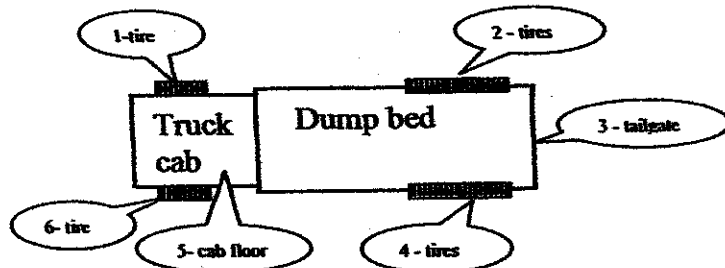
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554510

Please print or type:

| | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|-------------------------|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Lincoln St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different from 3) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Lincoln St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity |
| | | | | | No. Type | | 20. Unit Wt/Vol |
| a. North Soil | | | CO 627 071401 12/15/15 | | 18 4 | | Y-Yards T-Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brannon | | | | Signature | | Month Day Year 1 1 11 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Chuck Toy | | | | Signature | | Month Day Year 09/04/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

018201

FOOTHILLS LANDFILL
8900 HIGHWAY 92
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 587203 | GRID 0000 |
| WEIGHMASTER | | |
| SC00080 BTNA C | | |
| DATE IN 4 September 2007 | | TIME IN 11:30 am |
| DATE OUT 4 September 2007 | | TIME OUT 11:30 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0534510 | ORIGIN | |

Gross Weight 82,760.00 lb
Tare Weight 36,540.00 lb
Net Weight 46,220.00 lb 23.11 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.11 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0554510

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and I (Interst) Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 8900 Hwy 10 Golden, CO 80401 (School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 20. Unit Wt/Vol | |
| a. Normal Soil | | C017/12000 Y511815 | | 18 No. 4 5 Yards 1 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beaman | | Signature | | Month Day Year 6/1/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Toy | | Signature | | Month Day Year 09/01/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

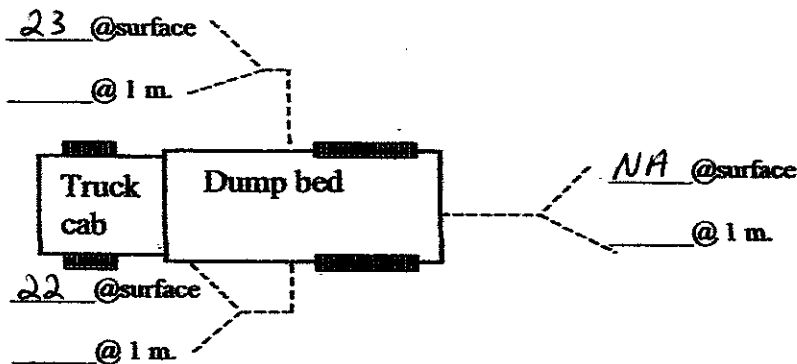
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1116 Surveyed by: CHicks, J Mathson
 Trucking Company: Griene Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

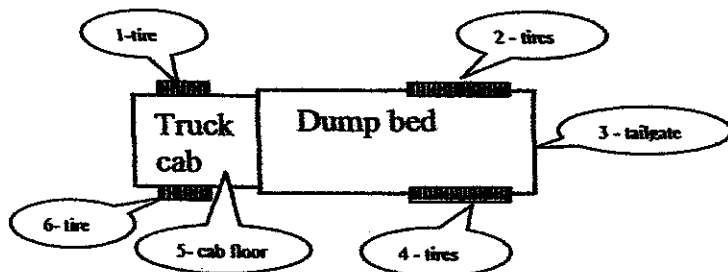
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554511

Please print or type.

| | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|------|--------------------------------|-------------------------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3500 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Dinkel Golden, CO 80401 303-273-3500 | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name GRIQUE TRUCKING #17 | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address GRIQUE TRUCKING 1500 Illinois St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity D. Drums | 20. Unit Wt/Vol Gallons | |
| | | | | | No. | Type | | | |
| a. Marm Soil | | | 00167070381511015 | | 18 | | 7 Yards | 1 Tons | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Johnson | | | | | Signature | | Month | Day | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | Signature | | Month | Day | Year |
| Printed/Typed Name John Johnson | | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

518209

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 589615 | 0000 |
| WEIGHMASTER | | |
| PC00080 SDNA C | | |
| DATE IN | | TIME IN |
| 4 September 2007 | | 11:35 am |
| DATE OUT | | TIME OUT |
| 4 September 2007 | | 11:34 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0534511 | | |

GC Gross Weight 33,840.00 lb
Tare Weight 37,700.00 lb Inbound -
Net Weight -6,140.00 lb 23.07 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.07 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0554511

Please print or type

| | | | | | | | | |
|--|--|---|--|----------------------------|------|-------------------------------|-------------------------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1570 Illinois St. Golden, CO 80401 303-273-3600 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3600 | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name 6700C Trucking #10. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Spartan Landfill 2500 1st St. Golden, CO 80401 # 303-273-3600 (University School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0 Drums | 20. Unit Wt/Vol Gallons | |
| | | | | No. | Type | | | |
| a. Steam Sulf | | CO 167 02002 1511915 | | 18 | | Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Simpson | | | | Signature | | Month | Day | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name Jim Caia | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

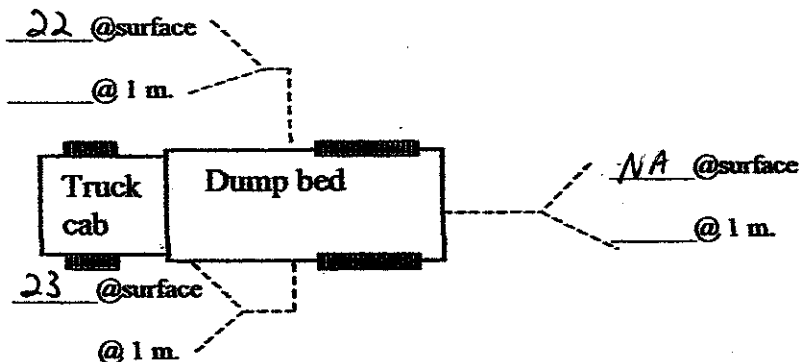
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1121 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

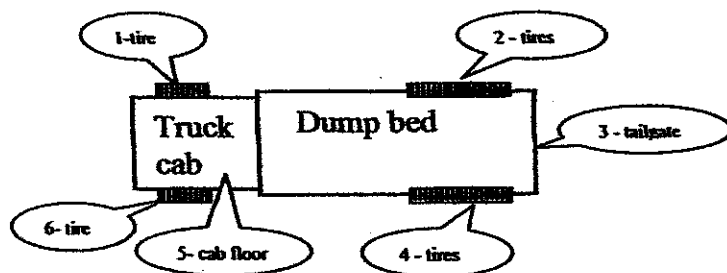
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 019204

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 587620 | GRID 0000 |
| WEIGHMASTER | | |
| PCCOCSO GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 11:07 am |
| DATE OUT 4 September 2007 | | TIME OUT 11:40 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0584512 | ORIGIN | |

Gross Weight 55,620.00 lb
 Tare Weight 37,200.00 lb
 Net weight 18,420.00 lb 23.21 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.21 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE KELIS



NON-HAZARDOUS WASTE MANIFEST

0554512

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3906 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name SDE Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO ADT (UNIT # 160000) (OWWASH) School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO 107-W0500 Y51121F | | 18. Containers No. Type 18 4 | |
| b. | | | | 19. Total Quantity 0.5 Yards | |
| c. | | | | 20. Unit Wt/Vol 0.5 Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Grieve | | Signature [Signature] | | Month Day Year 7/1/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature [Signature] | | Month Day Year 7/1/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

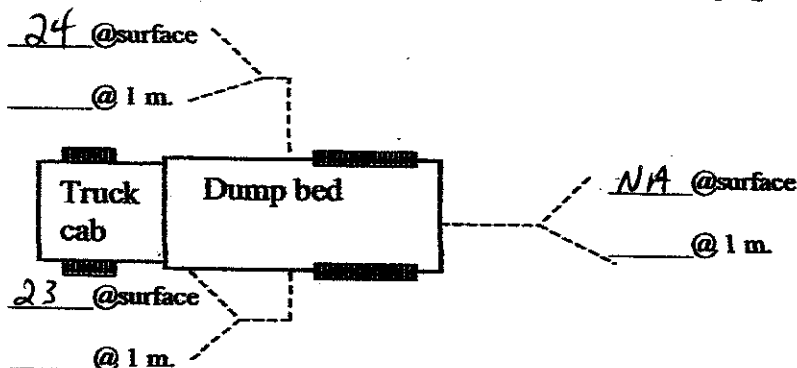
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1143 Surveyed by: CHicks, J Mathson
 Trucking Company: Grove Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

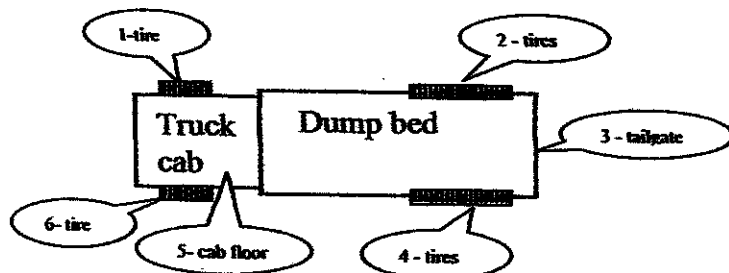
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 dpm | 571.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0554513

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 970-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 970-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 2630 Hwy 92 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Haz | | CO 187-070500-511815 | | 18 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0.000000 | | 20. Unit 0.000000 | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve S. ... | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name David A. ... | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

313201

FOOTHILLS LANDFILL
8900 HIGHWAY 7E
GOLDEN
CO
720603
COLORADO SCHOOL OF MINES
1800 ILLINOIS ST
GOLDEN, CO 80401

Contract# YE11913

| | | | | | |
|------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 584637 | | 0000 | |
| WEIGHMASTER | | | | | |
| PC00060 GINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 4 September 2007 | | | 11:58 am | | |
| DATE OUT | | | TIME OUT | | |
| 4 September 2007 | | | 11:58 am | | |
| VEHICLE | | | ROLL OFF | | |
| 7511913 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0554512 | | | | | |

00 Gross Weight 83,820.00 lb
Tare Weight 38,700.00 lb
Net Weight 45,120.00 lb 24.06 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0554513

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273 3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273 3990 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Hazardous | | 17. Allied Waste Approval # and Exp. Date CO 187670008 1511915 | | 18. Containers No. Type 18 | |
| b. | | | | 19. Total Quantity Drums Y-Yards | |
| c. | | | | 20. Unit Wt/Vol Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve L. Johnson | | Signature | | Month Day Year 12 31 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Robert A. Lopez | | Signature | | Month Day Year 09 04 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 12 31 97 | |

TRANSPORTER #1

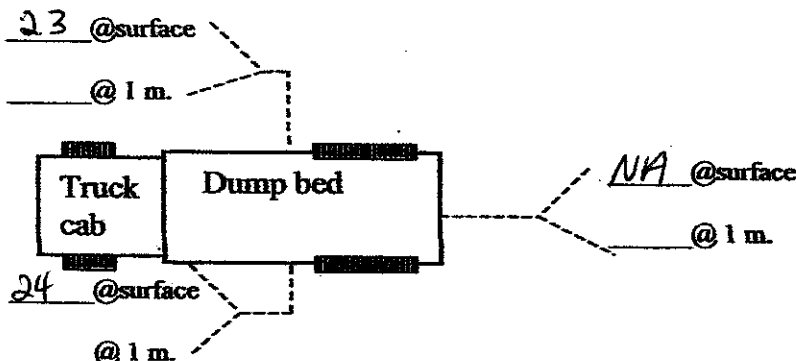
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1200 Surveyed by: CHicks, J Mathson

Trucking Company: Griene Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

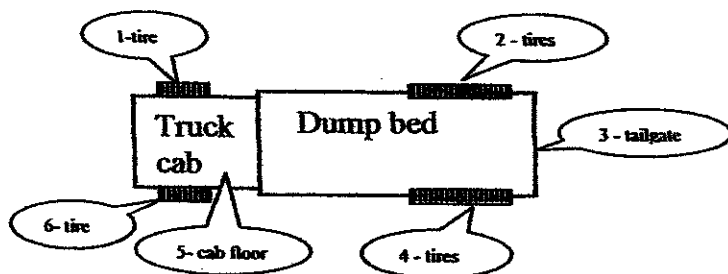
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554514

Please print or type

| | | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|------------|--------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 8800 Hwy 93 Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. None Sent | | | 17. Allied Waste Approval # and Exp. Date 00197 070000 7511215 | | 18. Containers | | 19. Total Quantity | 20. Unit |
| | | | | | No. | Type | Drums | Tons |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve B. [Signature] | | | | Signature [Signature] | | Month 7 | Day 1 | Year 01 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month 7 | Day 1 | Year 01 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

519297

FOOTHILLS LANDFILL
 8700 MIDWAY RD
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS1191E

| | | |
|------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 889653 | 0000 |
| WEIGHMASTER | | |
| PC000050 GINA C | | |
| DATE IN | TIME IN | |
| 4 September 2007 | 12:21 pm | |
| DATE OUT | TIME OUT | |
| 4 September 2007 | 12:22 pm | |
| VEHICLE | ROLL OFF | |
| YS1191E | | |
| REFERENCE | ORIGIN | |
| 0534514 | | |

Gross Weight 81,300.00 lb
 Tare Weight 34,400.00 lb Inbound -
 Net Weight 46,900.00 lb 23.45 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.45 | TN | SO-CONT SOIL (| | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554514

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1600 Illinois St Golden, CO 80401 (Contract: School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non-Hazardous | | CC 037 02/0000-15/1015 | | 19. Total Quantity 10 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bushman | | Signature | | Month Day Year 1 1 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Paul M. ... | | Signature | | Month Day Year 1 1 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 1 1 97 | |

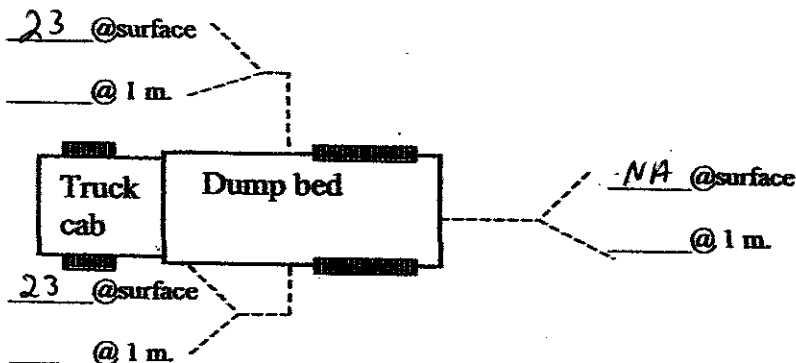
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1203 Surveyed by: C Hicks, J Mattson
 Trucking Company: Greene Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

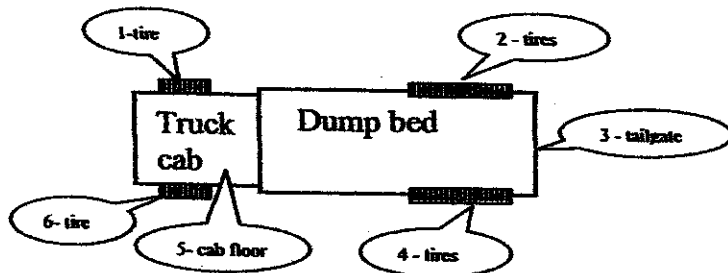
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554515

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Garden, CO 80401 303-275-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Grant St Garden, CO 80401 303-275-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St. Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Non Soil | | 20167070600 1511315 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

010200

FOOTHILLS LANDFILL
8900 HIGHWAY 95
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------|------------------|----------------------|
| SITE 01 | TICKET 509452 | GRID 0000 |
| WEIGHMASTER R200080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 12:21 pm |
| DATE OUT 4 September 2007 | | TIME OUT 12:21 pm |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 0554515 | ORIGIN | |

Gross Weight 70,100.00 lb
Tare Weight 56,980.00 lb
Net Weight 41,120.00 lb 20.56 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.56 | TN | SA-COAT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0554515

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1521 Illinois St Garden, CO 80401 303-275-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-275-3900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 14th St Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Gumbo Soil | | CO L67 070008 0311915 | | 19. Total Quantity 120 Drums | |
| b. | | | | 20. Unit WT/Vol Gallons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Seaton | | Signature [Signature] | | Month Day Year 11/1/13 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 11/1/13 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 11/1/13 | |

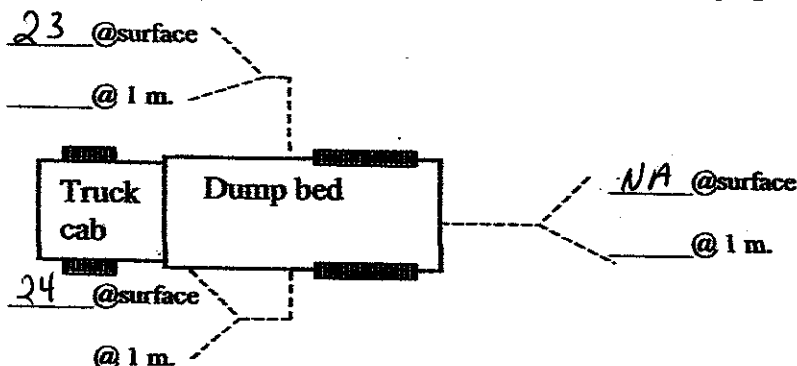
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 /209 Surveyed by: CHicks, J Mattson
 Trucking Company: Grove Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

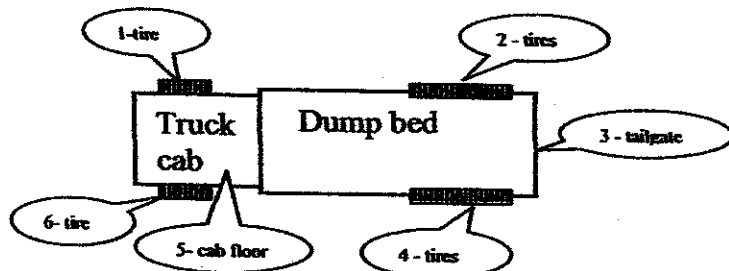
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 dpm | 571.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0554516

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Hazardous | | 2018070001541010 | | 7-Yards | |
| b. | | | | 1-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brown | | | | 6 2 98 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Santhiago Vargas | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519300

FOOTHILL LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 509656 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 12:03 pm |
| DATE OUT 4 September 2007 | | TIME OUT 12:27 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554516 | ORIGIN | |

GS Gross Weight 76,020.00 lb
Tare Weight 35,640.00 lb
Net Weight 40,380.00 lb 20.17 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

9-4-07



NON-HAZARDOUS WASTE MANIFEST

0554516

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3698 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden, CO 80401 ACQUINITY II BUILDING (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Slat | | CO 157 070008 751015 | | 19. Total Quantity 18 Y-Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature [Signature] Month Day Year 1 2 94 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sarah Vargas | | | | Signature [Signature] Month Day Year 1 2 94 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year 1 2 94 | |

TRANSPORTER #1

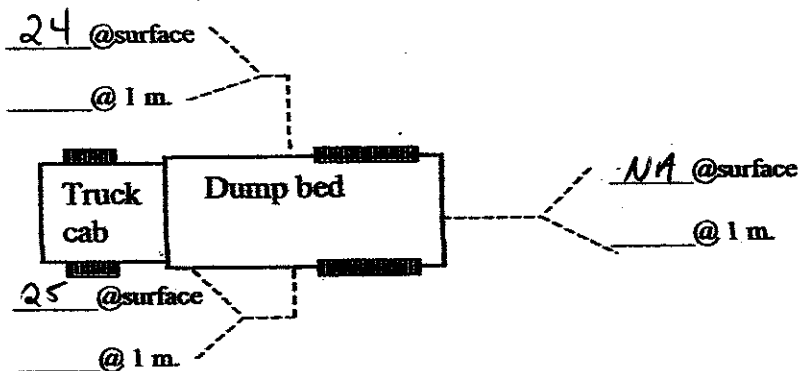
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1214 Surveyed by: CHicks, J Mathson

Trucking Company: Gnere Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

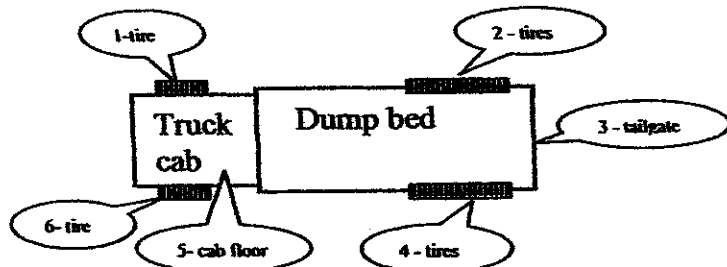
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554517

Please print or type:

| | | | | | | | | |
|--|--|---|--|--|------|--------------------------------|-------------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Wilson St Golden, CO 80401 303-273-3993 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Dahl St Golden, CO 80401 303-273 3993 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Wilson St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Ct/Drums | 20. Unit Wt/Vol Lb/Gallons | |
| | | | | No. | Type | | | |
| a. Heavy Soil | | CO 157 970903 1311015 | | | | 7-Yards | 1-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature | | Month 1 | Day 1 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Rick Phelan | | | | Signature | | Month 9 | Day 4 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 806403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------|------------------|----------------------|
| SITE 01 | TICKET 505657 | GRID 0000 |
| WEIGHMASTER PC00080 OJNA E | | |
| DATE IN 4 September 2007 | | TIME IN 12:29 pm |
| DATE OUT 4 September 2007 | | TIME OUT 12:29 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0554517 | ORIGIN | |

00 Gross Weight 60,760.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 45,660.00 lb 22.64 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.64 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0554517

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-0969 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0969 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | CO 107-127008-0511910 | | 19. Total Quantity 2 Drums 20. Unit Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brannon | | | | 9 4 0 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Phelan | | | | 9 4 0 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | 9 4 0 | |

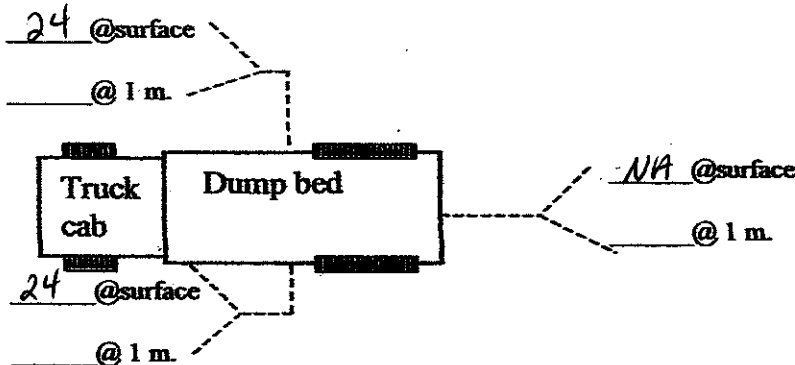
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1221 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

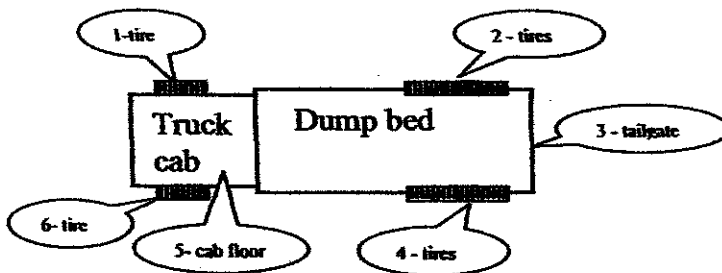
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554518

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---|---|--|--|-----|------|-----------------------------|-------------------------------|--------------|-----------------------|----|---|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1600 Illinois St Golden, CO 80401 303-273-3898 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 N. Hwy 50 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity Drums</th> <th>20. Unit Wt/Vol Gallons</th> </tr> </thead> <tbody> <tr> <td>a. North Sol</td> <td>CC 167 070208 1511915</td> <td>18</td> <td>4</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Gallons | a. North Sol | CC 167 070208 1511915 | 18 | 4 | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Gallons | | | | | | | | | | | | | | | | | | | | | | |
| a. North Sol | CC 167 070208 1511915 | 18 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Sean J. Adams | | Signature <i>[Signature]</i> | | Month Day Year 12 01 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Chuck Foy | | Signature <i>[Signature]</i> | | Month Day Year 12 01 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760609
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7511915

| | | |
|-------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589666 | GRID 0000 |
| WEIGHMASTER R200080 STNA C | | |
| DATE IN 4 September 2007 | | TIME IN 12:37 pm |
| DATE OUT 4 September 2007 | | TIME OUT 12:37 pm |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 0534318 | ORIGIN | |

00 Gross Weight 80,200.00 lb
 Tare Weight 36,540.00 lb Inbound --
 Net Weight 43,660.00 lb 21.83 m

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.83 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0554518

Please print or type

| | | | | | |
|--|--|--------------------------|--|--------------|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Lincoln St Golden, CO 80401 303-273-0808 | | | 5. Generating Location (if different) School of Mines Research Institute North West at 12th and Birch St Golden, CO 80401 303-273-0808 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address 1800 May St Golden, CO 80401 a former Colorado School of Mines | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| | | | | | No. Type |
| a. None | | | CO 157 070808 1511915 | | 18 4 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Schmitt | | | Signature [Signature] | | |
| | | | Month Day Year 6 8 07 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | Signature [Signature] | | |
| | | | Month Day Year 09 01 07 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | |
| | | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | |
| | | | Month Day Year | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

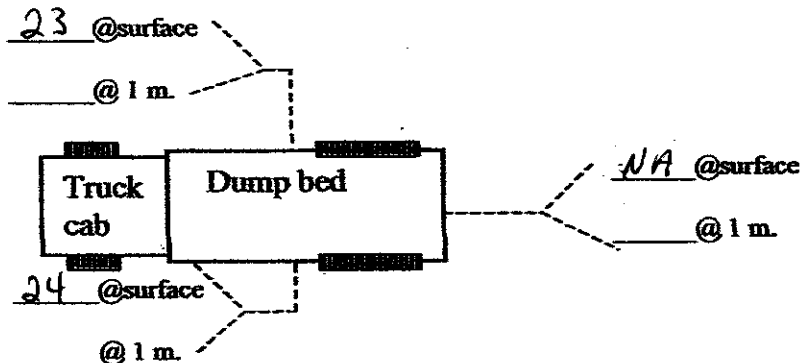
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1227 Surveyed by: CHicks, J Mattson
 Trucking Company: Griewe Truck license plate no./state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

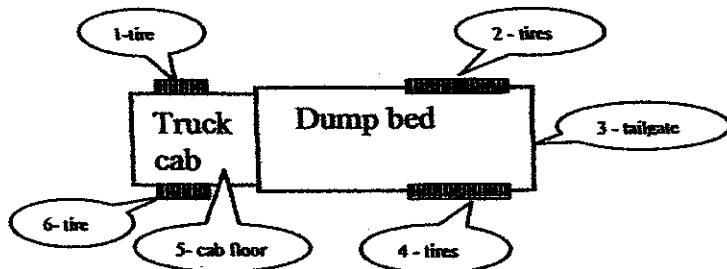
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554519

Please print or type

| | | | | | | | | | | | | | |
|--|--|---|--|--|--|--------------------|--|------------|--|----------|--|------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1501 Blake St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | |
| 7. Transporter #1 Company Name Grave Tanking H/D | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address T/S/D Facility 8500 Hwy 60 Golden, CO 80401 (Underground Storage Tank) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 157-27190A-511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit | | | | | |
| | | | | No. Type | | P. Name | | Q. Gallons | | | | | |
| | | | | ✓ | | Y-Yards | | T-Tons | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature | | | | Month 7 | | Day 2 | | Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature | | | | Month 8 | | Day 4 | | Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |

GENERATOR'S COPY

COM000033

519314

FOOTHILLS LANDFILL
 5700 HIGHWAY 93
 GOLDEN
 CO
 760608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------|------------------|----------------------|
| SITE 01 | TICKET E29470 | GRID 0000 |
| WEIGHMASTER FC00080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 12:44 PM |
| DATE OUT 4 September 2007 | | TIME OUT 12:44 PM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554519 | ORIGIN | |

Gross Weight 83,640.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 45,940.00 lb 22.97 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.97 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554519

Please print or type.

| | | | | | |
|--|--|--------------------------|---|---|--------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1572 Black St Golden, CO 80401 303-273-3936 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3936 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Greene Trucking H/O | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address 8500 1/2 Hwy 93 Golden, CO ACCOUNT # 934600 Colorado School of Mines | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| a. Non-Hazardous | | | CO 187 07/30/15 1511915 | | 19. Total Quantity 17 Drums |
| b. | | | | | 20. Unit 17 Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | | Signature [Signature] | | |
| | | | Month Day Year 1 1 15 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | Signature [Signature] | | |
| | | | Month Day Year 8 1 15 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | |
| | | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | |
| | | | Month Day Year | | |

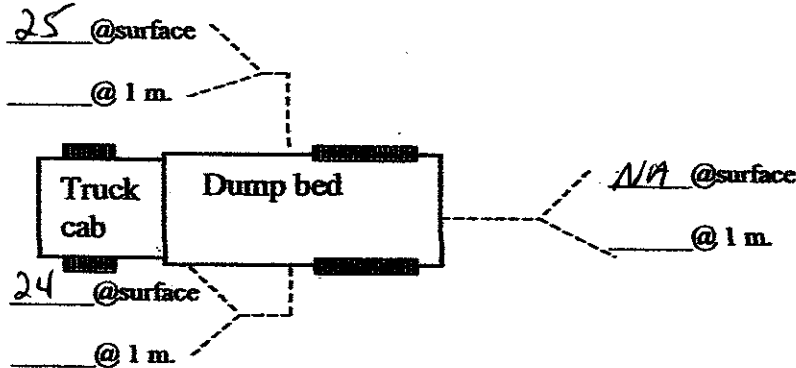
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 1232 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

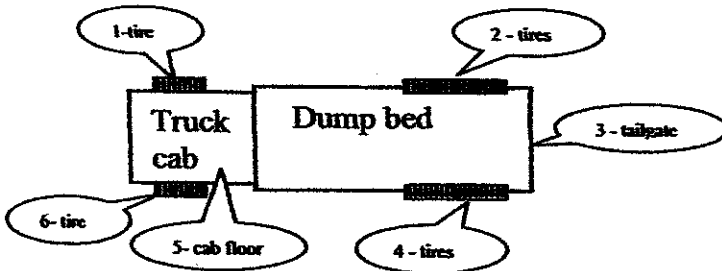
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554520

Please print or type

| | | | | | | | | | | |
|--|--|--------------------------|--|--|--|----------------------------|------|-------------------------------|-------------------------------|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1401 Minor St Golden, CO 80401 303-275-3368 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Piner St Golden, CO 80401 303-275-3368 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address T/S/D Facility 8800 Hwy 50 Golden, CO 80401 (Colorado School of Mines) | | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0 Drums | 20. Unit Wt/Vol 60 Gallons | |
| | | | | | | No. | Type | | | |
| a. Norm Soil | | | | CO 157 07/31/00 1511015 | | | | Y-Yards | T-Tons | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name: Steve Berger | | | | | | Signature: [Signature] | | Month: 12 | Day: 2 | Year: 99 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name: [Signature] | | | | | | Signature: [Signature] | | Month: 1 | Day: 14 | Year: 00 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name: | | | | | | Signature: | | Month: | Day: | Year: |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name: | | | | | | Signature: | | Month: | Day: | Year: |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519320

FOOTHILLS LANDFILL
 6900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y311915

| | | |
|-------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589272 | GRID 0000 |
| WEIGHMASTER R000080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 12:50 pm |
| DATE OUT 4 September 2007 | | TIME OUT 12:50 pm |
| VEHICLE Y311915 | | ROLL OFF |
| REFERENCE 0354520 | ORIGIN | |

Gross Weight 79,260.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 42,680.00 lb 21.34 TH

Incurred -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.34 | TH | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0554520

Please print or type

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Lincoln St Golden, CO 80401 303-271-0300 | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-271-0300 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 20001 Hwy 92 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | CO107070903 7/31/95 | | 18 18 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Drums 20 Gallons | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Blum | | Signature [Signature] | | Month Day Year 7 1 95 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 7 1 95 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 7 1 95 | |

TRANSPORTER #1

COM000033

Pile B Sept 4, 2007

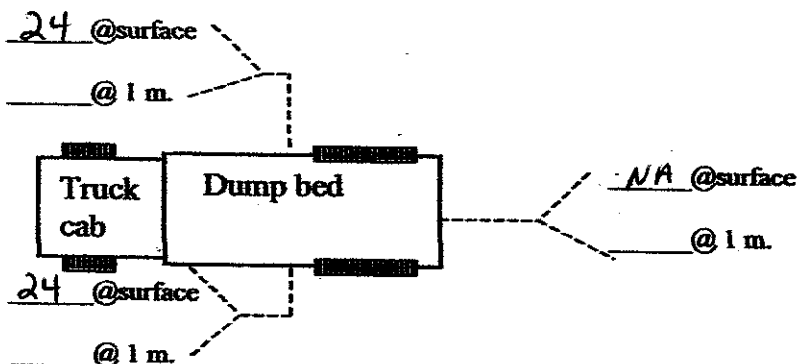
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|--------|-----------------------|----------|----------------------------|------|
| Marguez 96 | 9-4-07 | 0700 | 0717 | 18 cy | 77.8 |
| JD 04 | - | 0700 | 0724 | | 74.1 |
| Grieve 23 | - | 0700 | 0729 | | 83.2 |
| Grieve 8 | - | 0700 | 0734 | | 83.0 |
| Grieve 12 | - | 0715 | 0740 | | 84.8 |
| Grieve 24 | - | 0720 | 0747 | | 84.0 |
| Marguez 961 | - | 0730 | 0753 | | 78.8 |
| Collazo 13 | - | 0745 | 0758 | | 80.0 |
| Ruiz 95 | - | 0750 08 | 0803 | | 77.7 |
| Marguez 96 | - | 0820 | 0829 | | 79.2 |
| JD 04 | - | 0825 | 0838 | | 85.0 |
| Grieve 23 | - | 0830 | 0843 | | 83.4 |
| Grieve 8 | - | 0835 | 0849 | | 83.9 |
| Grieve 12 | - | 0845 | 0856 | | 84.2 |
| Grieve 24 | - | 0850 | 0901 | | 82.8 |
| Marguez 961 | - | 0918 | 0928 | | 83.0 |
| Ruiz 95 | - | 0920 | 0932 | | 82.2 |
| JD 04 | - | 0933 | 0942 | | 80.3 |
| Marguez 96 | - | 0935 | 0948 | | 85.5 |
| Grieve 23 | - | 0940 | 0952 | | 78.6 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0717 Surveyed by: CHicks, J Mattson
 Trucking Company: Grove Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

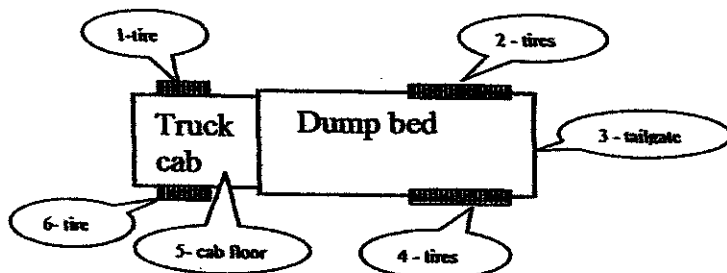
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554531

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Birch St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 2000 Hwy 10 Golden, CO 80401 # 303-273-3998 (Close to Branch of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Metal Box | | CO 067 070903 1511815 | | Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve DeLong | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Lopez | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

319057

FOOTHILLS LANDFILL
 8900 HIGHWAY 95
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|--------------------------------|------------------|---------------------|
| SITE 01 | TICKET 587410 | GRID 0000 |
| WEIGHMASTER AC000080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 7:37 am |
| DATE OUT 4 September 2007 | | TIME OUT 7:37 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554531 | ORIGIN | |

Gross Weight 77,780.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 41,200.00 lb 20.60 TH Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.60 | TH | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



[Signature]
 SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554531

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | |
| 15. Facility's Phone | | 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | |
| 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| No. | | Type | | Drums Gallons | |
| a. | | Norm Soil | | 20157 070X0 Y511915 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Rodriguez | | | | Signature [Signature] Month Day Year 1 1 15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando [Name] | | | | Signature [Signature] Month Day Year 9 7 12 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

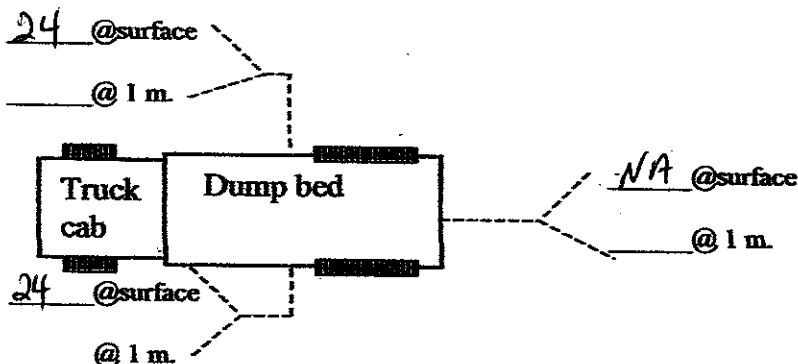
TRANSPORTER #1

60M000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0724 Surveyed by: CHicks, J Mattson
 Trucking Company: Griene Truck license plate no./state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

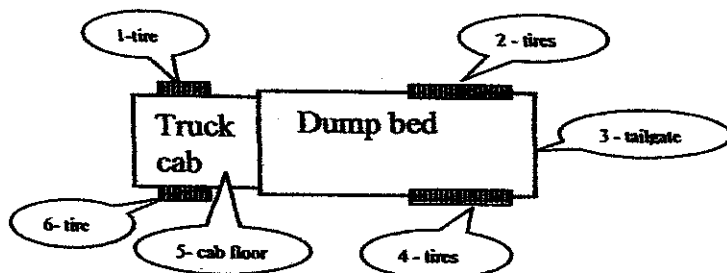
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554532

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Blaine St Golden, CO 80401 303-273-3606 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3606 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 8300 Hwy 66 Golden, CO 80401 # 303-273-3606 (School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | 00137 070608 Y511045 | | 7-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Scanlon | | | | Signature | |
| | | | | Month Day Year 2 2 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519062

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 58941E | 0000 |
| WEIGHMASTER | | |
| PC00080 GINA E | | |
| DATE IN | | TIME IN |
| 4 September 2007 | | 7:41 am |
| DATE OUT | | TIME OUT |
| 4 September 2007 | | 7:43 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 058453E | | |

GS Gross Weight 74,120.00 lb
 Tare Weight 35,640.00 lb
 Net weight 38,480.00 lb 19.24 TR

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.24 | TR | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

9-4-07



NON-HAZARDOUS WASTE MANIFEST

0554532

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Mineral St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity D-Drums E-Containers | |
| a. Norm Soil | | CO-57-072908 YL11915 | | 17 Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Schaefer | | Signature [Signature] | | Month Day Year 8 20 94 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Smita Vargay | | Signature [Signature] | | Month Day Year 8 20 94 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

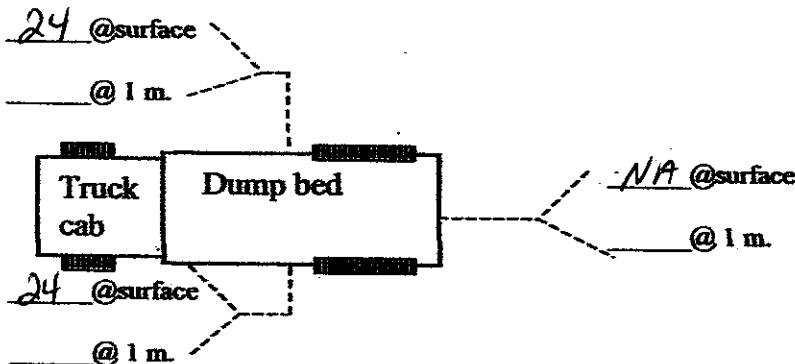
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0729 Surveyed by: CHicks, J Mathson
 Trucking Company: Grove Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

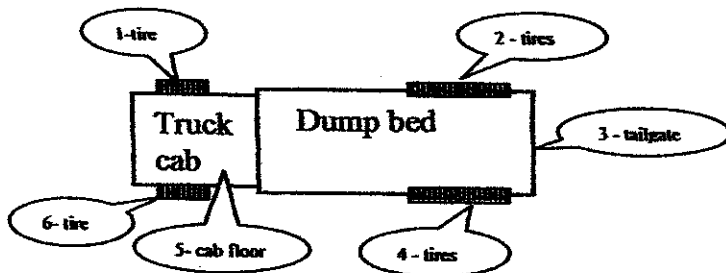
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554533

Please print or type.

| | | | | | |
|--|--|---|--|---|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-0998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | 00-07-07000-1011315 | | 19. Total Quantity 0.000000 Y-Yards | |
| b. | | | | 20. Unit 0.000000 T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannan | | Signature | | Month 7 | Day 1 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHILAN | | Signature | | Month 9 | Day 4 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month | Day |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month | Day |

GENERATOR'S COPY

COM000033

319067

FOOTHILLS LANDFILL
 8500 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 889400 | 0000 |
| WEIGHMASTER | | |
| R0000080 DINA C | | |
| DATE IN | | TIME IN |
| 4 September 2007 | | 7:17 am |
| DATE OUT | | TIME OUT |
| 4 September 2007 | | 7:47 am |
| VEHICLE | | ROLL OFF |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 0834833 | | |

03 Gross Weight 83,220.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 48,120.00 lb 24.0% TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



23

NON-HAZARDOUS WASTE MANIFEST

0554533

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303 773-0998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303 773-0998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal | | CO 167 02/003 7/11/15 | | 18 18 Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| STEVE BROWN | | | | 1 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| MARK PHELAN | | | | 9 7 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

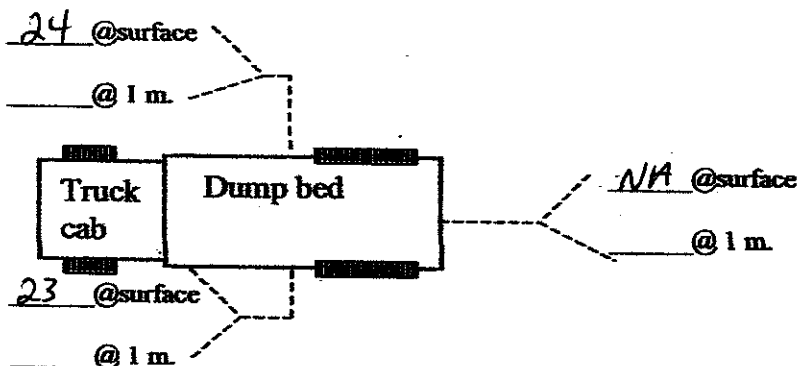
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0734 Surveyed by: CHicks, J Mattson
 Trucking Company: Griew Truck license plate no./state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

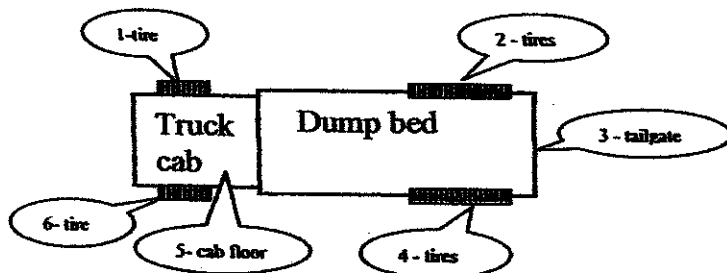
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554534

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 100-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non-Hazardous | | CO 157-070908 12/11/15 | | 19. Total Quantity 10 Yards | |
| b. | | | | 20. Unit Wt/Vol 1-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 9/2/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 09/04/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

510973

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 587423 | GRID 0000 |
| WEIGHMASTER | | |
| RECORDS STATION | | |
| DATE IN 4 September 2007 | | TIME IN 7:54 am |
| DATE OUT 4 September 2007 | | TIME OUT 7:54 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554534 | ORIGIN | |

Gross Weight 83,020.00 lb
Tare Weight 36,540.00 lb Inbound -
Net Weight 46,480.00 lb 23.24 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0554534

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1570 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10331 Hwy 99 Golden, CO 80401 / Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | CO 157 070900 YS 1915 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | Signature <i>[Signature]</i> | | Month Day Year 11 01 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature <i>[Signature]</i> | | Month Day Year 09 04 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

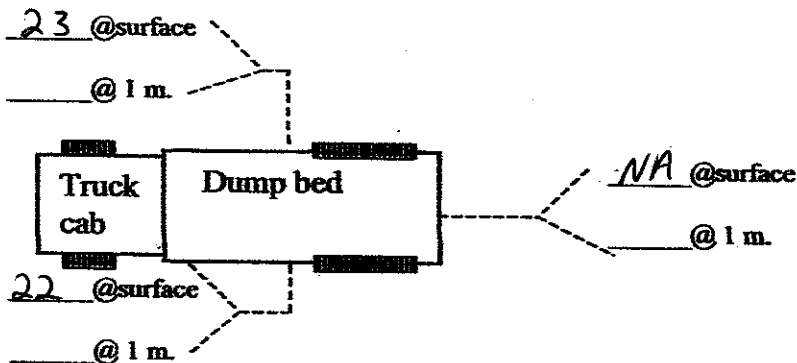
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0740 Surveyed by: CHicks, J Mattson
 Trucking Company: Griener Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

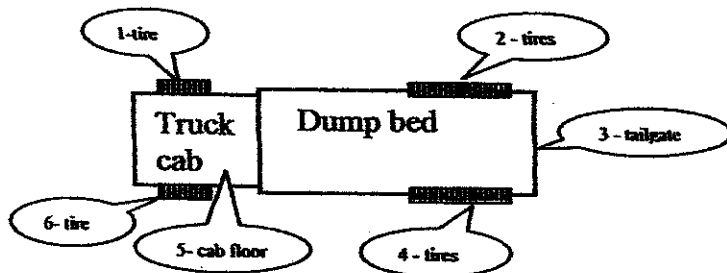
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:
 Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554536

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-1998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-1998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene Trucking 1112 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado State 1900 Hwy 93 Golden, CO 80401 ACCOUNT # 92843 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non Sol | | CO 02770000 10-18-15 | | 19. Total Quantity 8-Yards | |
| b. | | | | 20. Unit T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 7 9 15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Tony Am | | Signature | | Month Day Year 7 9 15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

513073 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 75
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589426 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 7:59 am |
| DATE OUT 4 September 2007 | | TIME OUT 7:59 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0534536 | ORIGIN | |

Gross Weight 84,760.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 47,060.00 lb 23.53 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.53 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE [Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0554536

12

Please print or type

| | | | | | | | | | | | |
|--|--|--|--|--|--|--------------------|--|-----------------|--|----------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1550 Illinois St Golden, CO 80401 303-273-3936 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3936 | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name Green Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address PACIFIC COAST 1550 Illinois St Golden, CO ACCOUNT # 140177 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Normal Solid b. c. d. | | 17. Allied Waste Approval # and Exp. Date C-1547-00000 Y11915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | No. | | Type | | Drums | | Gallons | |
| | | | | 1 | | | | Yards | | Tons | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Bertram | | | | Signature | | | | Month Day Year | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | | |

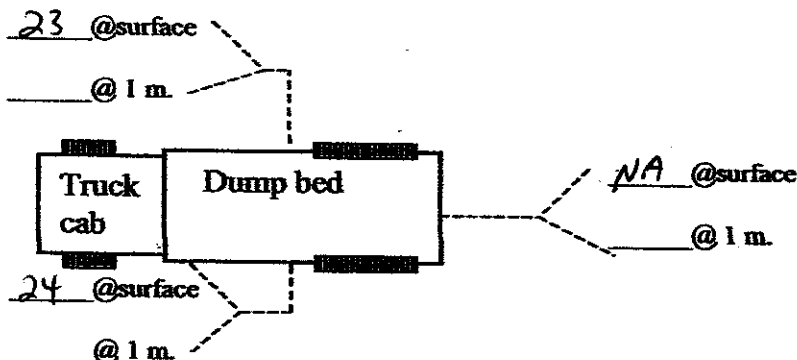
TRANSPORTER #1

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0747 24 Surveyed by: CHicks, J Mattson
 Trucking Company: Griene Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

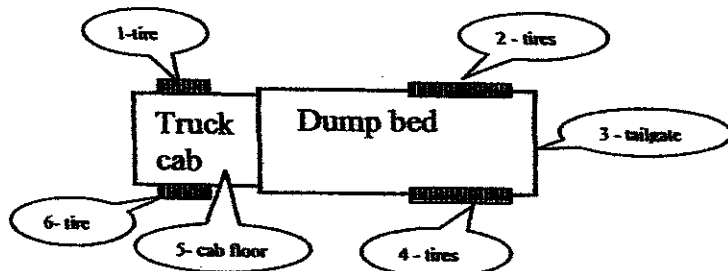
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24

519078

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589431 | GRID 0000 |
| WEIGHMASTER | | |
| RC00080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 8:07 am |
| DATE OUT 4 September 2007 | | TIME OUT 8:07 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554537 | ORIGIN | |

Gross Weight 83,960.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 46,760.00 lb 23.38 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.38 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

24
0554537

Please print or type

| | | | | | |
|--|--|---|---|--------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Golden, CO 80401 303-273-4968 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-4968 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name Joe G. Neve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1501 Illinois St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | CO 187 93003 FC11015 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Gannon | | Signature [Signature] | | Month Day Year 11/1/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Kerry Shannon | | Signature [Signature] | | Month Day Year 09/04/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

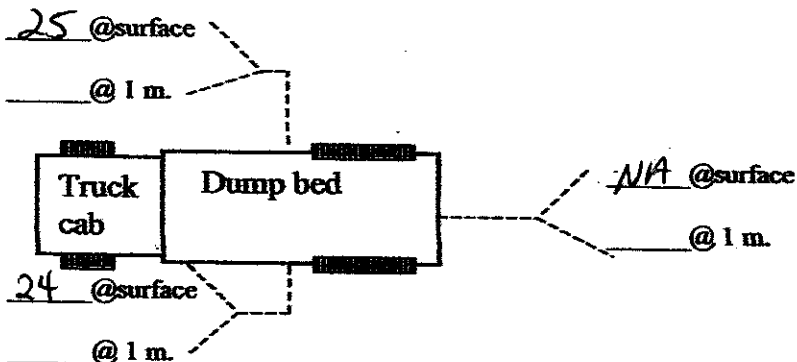
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0753 Surveyed by: C Hicks, J Mattson
 Trucking Company: Griene Truck license plate no./state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

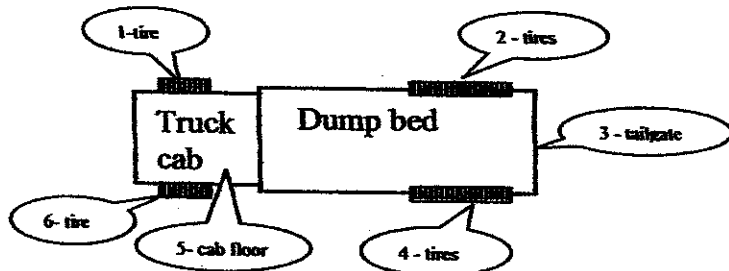
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554538

961

Please print or type.

| | | | | | | | | | | |
|--|--|--|--|---|--|--------------------|----------|-------|-----|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address 1500 Viribus St Golden, CO 80401 303-273-3500 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3500 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address PACIFIC LUMBER 8001 Ing. Rd Golden, CO 80401 # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | |
| 16. Waste Shipping Name and Description a. Harm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 167370000 YES 1915 | | 18. Containers | | 19. Total Quantity | 20. Unit | | | |
| | | | | No. Type | | Drums | Drums | | | |
| | | | | | | Y-Yards | T-Tons | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month | Day | Year | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year | | |

GENERATOR'S COPY

COM000033

519832

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# YB11915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 329434 | GRID 0000 |
| WEIGHMASTER | | |
| PC000080 OTHER C | | |
| DATE IN 4 September 2007 | | TIME IN 8:15 am |
| DATE OUT 4 September 2007 | | TIME OUT 9:15 am |
| VEHICLE YB11915 | | ROLL OFF |
| REFERENCE 0034538 | ORIGIN | |

Gross Weight 73,820.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 44,420.00 lb 22.21 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.21 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

A. H.



NON-HAZARDOUS WASTE MANIFEST

0554538

961

Please print or type

| | | | | | | | | |
|--|--|---|--|--|------|---|-------------------------|----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Birney St Golden, CO 80401 303-273-3593 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3593 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birney St Golden, CO 80401 ACQUINT # 000000 (University of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0 Drums 0 Gallons | 20. Unit Wt/Vol Tons | |
| | | | | No. | Type | | | |
| a. Harm Soil | | CO 157 073003 1511915 | | | 180 | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name <u>Steve Blahman</u> | | | | Signature <u>[Signature]</u> | | Month <u>7</u> | Day <u>2</u> | Year <u>97</u> |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name <u>[Signature]</u> | | | | Signature <u>[Signature]</u> | | Month <u>7</u> | Day <u>2</u> | Year <u>97</u> |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

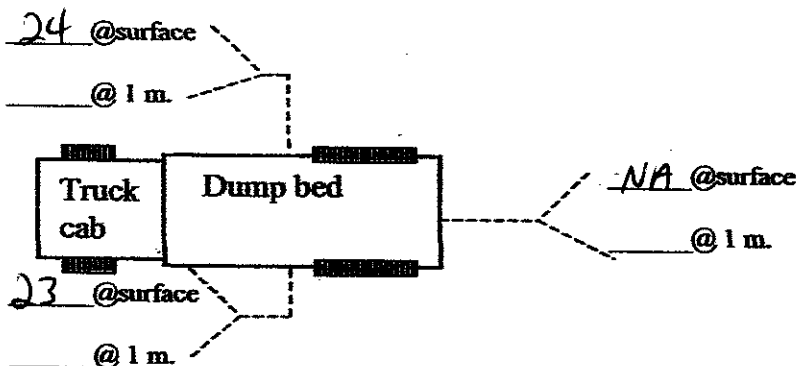
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0758 Surveyed by: CHicks, J Mathson
 Trucking Company: Grene Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

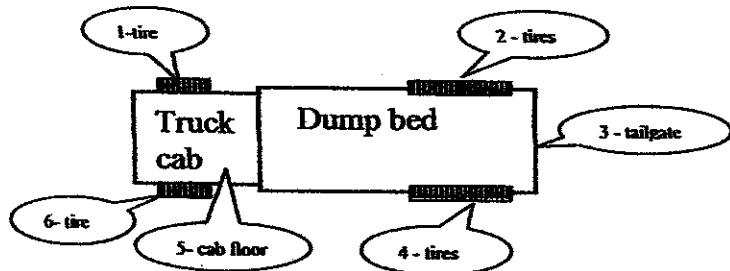
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |

FOOTHILLS LANDFILL
 8700 HIGHWAY 73
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|--------------------------------|------------------|---------------------|
| SITE 01 | TICKET 529446 | GRID 0000 |
| WEIGHMASTER R0000000 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 8:27 am |
| DATE OUT 4 September 2007 | | TIME OUT 8:27 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554539 | ORIGIN | |

Gross Weight 32,840.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 42,140.00 lb 23.57 TH

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.57 | TR | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0554539

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | C0167 07/00 YS11915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons | | | | | |
| 20. Unit Wt/Vol 7-Tons 7-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Rinkner | | | | 7/01/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| John C. Lopez | | | | 01/04/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033



NON-HAZARDOUS WASTE MANIFEST

0554539

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3600 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3600 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 00167070001511915 | | 18 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Binkman | | [Signature] | | 9/9/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| John Binkman | | [Signature] | | 07/09/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 11/11/97 | |

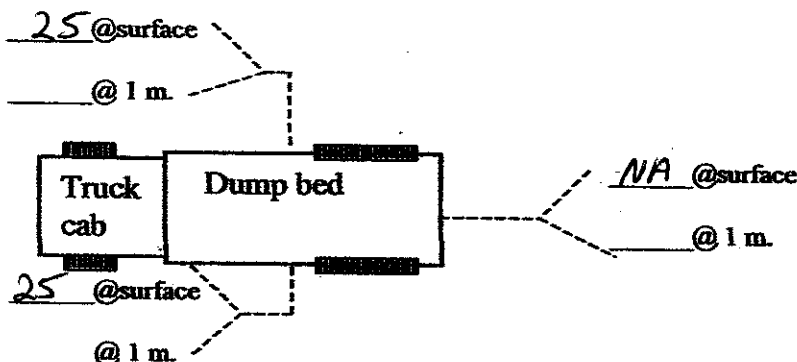
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0803 Surveyed by: CHicks, J Mattson
 Trucking Company: Grene Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

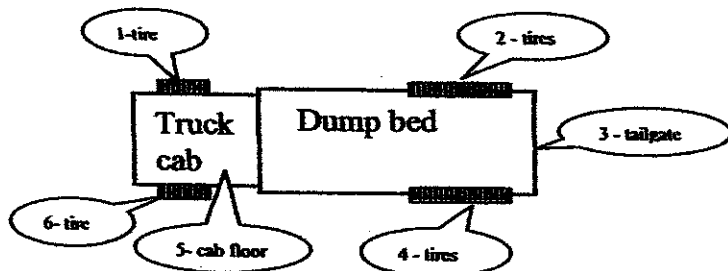
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554541

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1000 Illinois St Golden, CO 80401 303-273-3836 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3836 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Illinois St Golden, CO 80401 303-273-3836 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Non-Haz | | CO 157 071005 Y611015 | | 1-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 9 0 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 09 21 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

519087

FOOTHILLS LANDFILL
8900 HIGHWAY 70
GOLDEN
CO
80606
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 509442 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 8:20 am |
| DATE OUT 4 September 2007 | | TIME OUT 8:23 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554541 | ORIGIN | |

Gross Weight 79,760.00 lb
Tare Weight 06,980.00 lb
Net Weight 42,780.00 lb 21.49 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.49 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554541

Please print or type

| | | | | | | | | | |
|--|--|--|--|---|--|--------------------|--|-------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St. Golden, CO 80401 #400001 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Normal Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO167 07/0001 1511015 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | No. Type | | G.D. Drums | | G.D. Drums | |
| | | | | 18 | | 7-Yards | | Tons | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | | | Month Day Year 9 01 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year 07 01 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year 10 11 07 | |

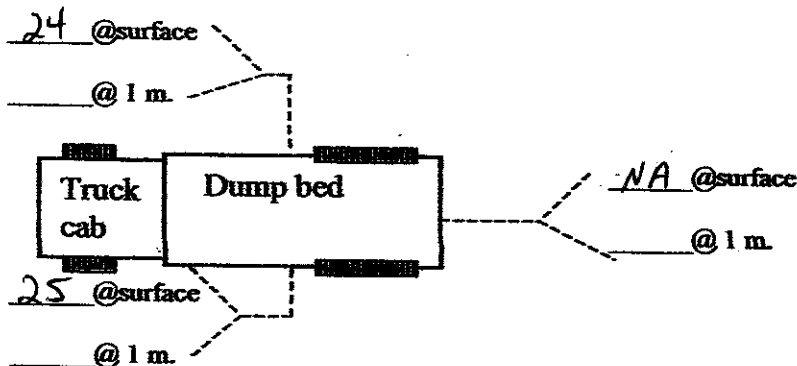
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0829 Surveyed by: CHicks, J Mattson
 Trucking Company: Griene Truck license plate no./state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

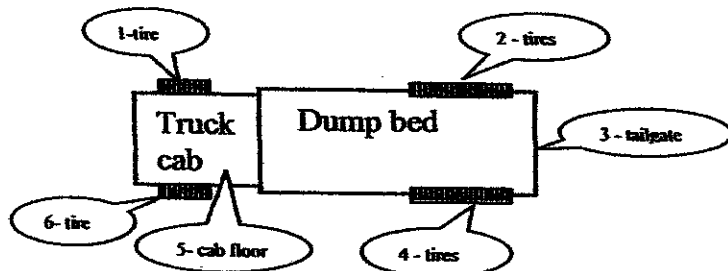
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554540

Please print or type.

| | | | | | |
|--|--|---|--|---|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Brown St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Brown St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Iron 808 | | CO LST 070003 4/31/94 | | No. | Type |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums | | 20. Unit 0 Cations | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve B. Brown | | Signature: [Signature] | | Month: 7 | Day: 27 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Fernando [Signature] | | Signature: [Signature] | | Month: 7 | Day: 27 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month: | Day: |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | Signature: | | Month: | Day: |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

518112

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|------------------|--|--------|--|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 589467 | | 0000 | |
| WEIGHMASTER | | | | | |
| R000050 GINA C | | | | | |
| DATE IN | | | | TIME IN | |
| 4 September 2007 | | | | 6:56 am | |
| DATE OUT | | | | TIME OUT | |
| 4 September 2007 | | | | 9:00 am | |
| VEHICLE | | | | ROLL OFF | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0554540 | | | | | |

03 Gross Weight 79,220.00 lb
Tare Weight 36,580.00 lb
Net Weight 42,640.00 lb 21.32 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.32 | TN | SL-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LP | FUEL RECOVERY FEE | | | | |



[Handwritten Signature]
SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



96

NON-HAZARDOUS WASTE MANIFEST

0554540

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-773-0000 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3906 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | CO 0000000000 12/19/15 | | 19. Total Quantity D-Drums 3 Cans | |
| b. | | | | 20. Unit WT/Vol Trucks | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bickman | | Signature | | Month Day Year 7 27 15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Lima | | Signature | | Month Day Year 7 27 15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

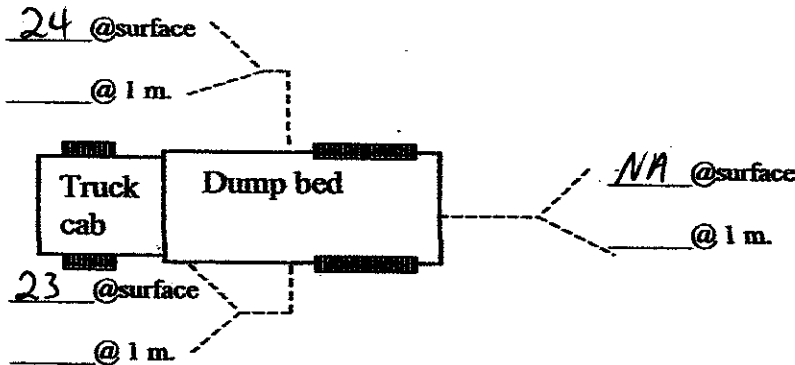
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0838 Surveyed by: CHicks, J Mattson
 Trucking Company: Greene Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

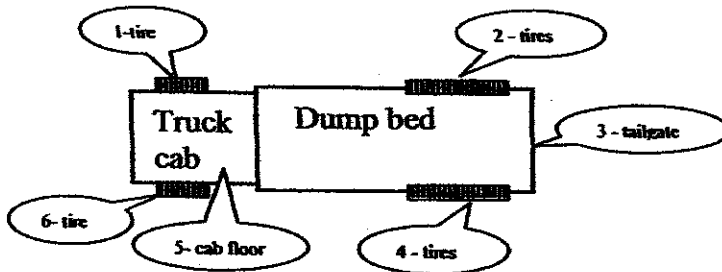
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554521

Please print or type.

| | | | | | |
|---|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 ACQUAINT # 050001 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
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| | | | | 98. Containers | |
| | | | | 99. Containers | |
| | | | | 100. Containers | |

GENERATOR'S COPY

COM000033

519110

FOOTHILL LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 389485 | GRID 0000 |
| WEIGHMASTER | | |
| PC000080 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 6:57 AM |
| DATE OUT 4 September 2007 | | TIME OUT 3:57 PM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0054831 | ORIGIN | |

GC Gross Weight 77,680.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 42,040.00 lb 21.02 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.01 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

9-11-07



NON-HAZARDOUS WASTE MANIFEST

0554521

JD64

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 # 447405 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Mine Soil | | CO 157 07306 1211515 | | 19. Total Quantity 0.000000 20. Unit Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve S. Johnson | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargas | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

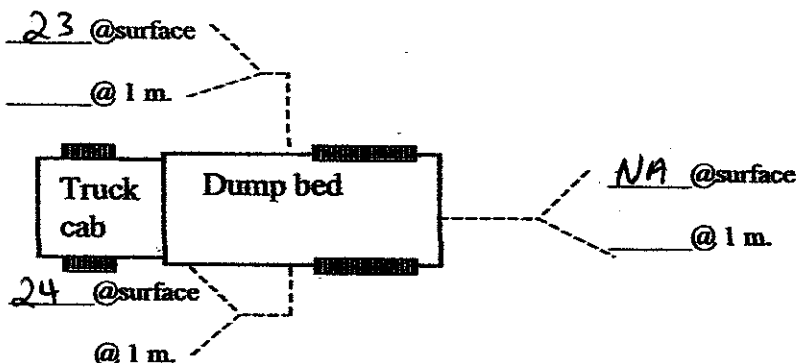
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0843 Surveyed by: CHicks, J Mattson
 Trucking Company: Griene Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

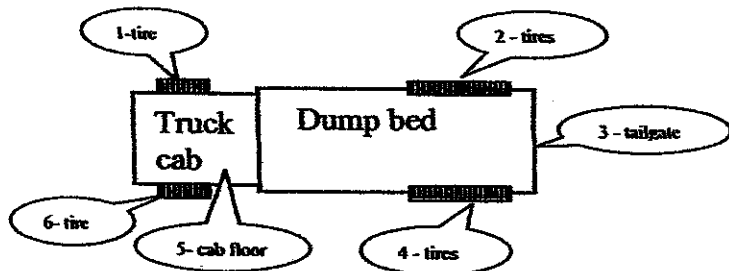
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



23

NON-HAZARDOUS WASTE MANIFEST

0554522

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1521 10th St Golden, CO 80401 303-273-0656 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 Hwy 50 Golden, CO 80401 (Colorado State School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Shrapnel | | 00187-070000 12/1/95 | | 19. Total Quantity 0 Drums 0 Gallons | |
| b. | | | | 20. Unit Wt/Vol 7 Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Gene S. Brown | | Signature <i>[Signature]</i> | | Month Day Year 1 1 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Thelan | | Signature <i>[Signature]</i> | | Month Day Year 9 1 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519115

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 889470 | GRID 0000 |
| WEIGHMASTER | | |
| DATE IN 4 September 2007 | | TIME IN 9:02 am |
| DATE OUT 4 September 2007 | | TIME OUT 9:02 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554822 | ORIGIN | |

OS Gross Weight 84,980.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 49,880.00 lb 24.9% TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.94 | TN | SO-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

23
0554522

Please print or type.

| | | | | | |
|---|--|---|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-5585 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3598 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 3000 May St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | 21. Additional Descriptions for Materials Listed Above | |
| | | | | 22. Special Handling Instructions and Additional Information | |
| | | | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

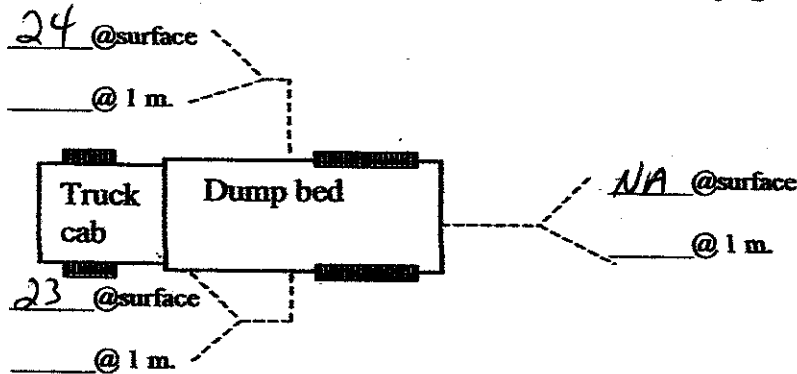
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0849 Surveyed by: CHicks, J Mattson
 Trucking Company: Gnere Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

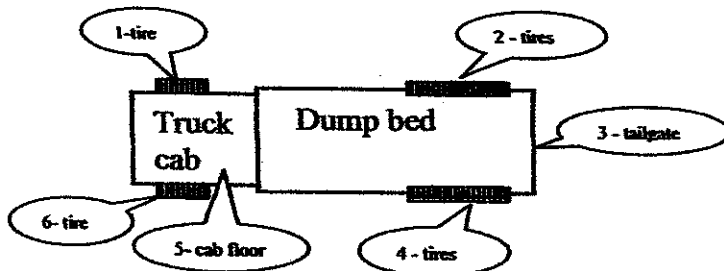
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554523

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 78th St Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3906 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 3000 Evans St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Heavy Soil | | 17. Allied Waste Approval # and Exp. Date CO1070700061511010 | | 18. Containers No. Type 16 Y | |
| b. | | | | 19. Total Quantity 1 Yards | |
| c. | | | | 20. Unit 1-Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve S. Brown | | Signature | | Month Day Year 10 11 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 10 11 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519123

FOOTHILLS LANDFILL
 8900 HIGHWAY 95
 GOLDEN
 CO
 804008
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 529478 | 0000 |
| WEIGHMASTER | | |
| F0000000 GINA C | | |
| DATE IN | | TIME IN |
| 4 September 2007 | | 7:07 am |
| DATE OUT | | TIME OUT |
| 4 September 2007 | | 9:09 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0534523 | | |

03 Gross Weight 83,420.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 46,880.00 lb 23.44 TN

Tolours -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.44 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554523

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-------------------------------|--|--|-----|------|-----------------------------|-------------------------------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Illinois St Garden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3996 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Garden, CO 80401 # 303-273-3996 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity Drums</th> <th>20. Unit Wt/Vol Gallons</th> </tr> <tr> <td>a.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Gallons | a. | | | | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Gallons | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. | | 00157 070908 Y514915 | | 18 4 Y-Yards Tons | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Benner | | Signature | | Month Day Year 6 1 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 09 01 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 7 | | | | | | | | | | | | | | | | | | | | | |

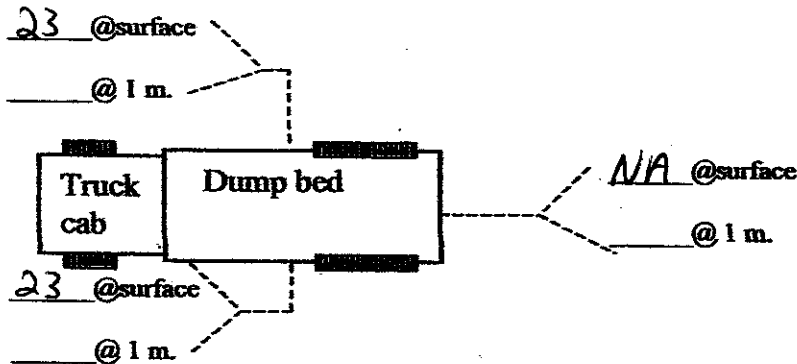
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0856 Surveyed by: CHicks, J Mathson
 Trucking Company: Grove Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

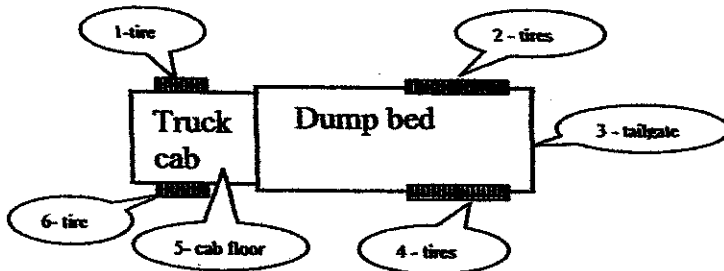
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554524

Please print or type:

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Wines St. Golden, CO 80401 303-273-3608 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273 3608 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Green Trucking, LLC | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Wines St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Hazardous | | 17. Allied Waste Approval # and Exp. Date 001837 070900 151115 | | 18. Containers No. Type 13 | |
| b. | | | | 19. Total Quantity D-Drums 3-Satons | |
| c. | | | | Y Yards T Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Buchanan | | Signature | | Month Day Year 1 27 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Samuel | | Signature | | Month Day Year 1 27 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

518127 *12*

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 80605
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|------------------------------|--|------------------|---------------------|--------------|--|
| SITE 01 | | TICKET 587432 | | GRID 0000 | |
| WEIGHMASTER | | | | | |
| PC000060 BINA C | | | | | |
| DATE IN 4 September 2007 | | | TIME IN 9:12 am | | |
| DATE OUT 4 September 2007 | | | TIME OUT 9:14 am | | |
| VEHICLE YE11915 | | | ROLL OFF | | |
| REFERENCE 0574524 | | ORIGIN | | | |

OS Gross Weight 83,860.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 46,160.00 lb 23.03 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.03 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0554524

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-------------------------------|---|--|-----|------|-----------------------------|-------------------------------|----|--|-------|------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Birch St Golden CO 80401 303-273-3666 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden CO 80401 303-273-3666 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name Green Technology Inc. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Normal Soil | | CO 157 070390 0511915 | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity Drums</th> <th>20. Unit Wt/Vol Gallons</th> </tr> </thead> <tbody> <tr> <td>15</td> <td></td> <td>Yards</td> <td>Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Gallons | 15 | | Yards | Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Gallons | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Yards | Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Binkman | | Signature | | Month Day Year 7 27 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name S. J. Chen | | Signature | | Month Day Year 9 4 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name J. S. Chen | | Signature | | Month Day Year 9 4 07 | | | | | | | | | | | | | | | | | | | | | |

TRANSPORTER #1

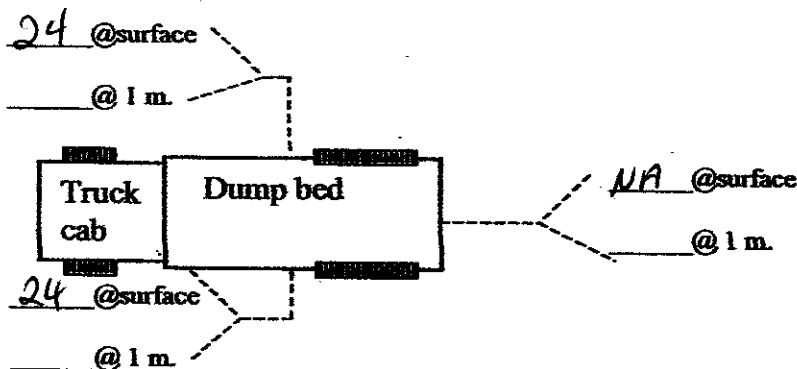
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0901 Surveyed by: Chicks, J Mathson

Trucking Company: Grene Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

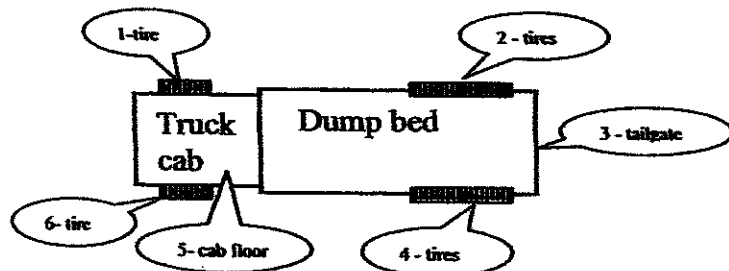
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y51191E

24

5213230

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 759491 | GRID 0000 |
| WEIGHMASTER | | |
| R000080 SINA C | | |
| DATE IN 4 September 2007 | | TIME IN 9:22 am |
| DATE OUT 4 September 2007 | | TIME OUT 9:22 am |
| VEHICLE 751191E | | ROLL OFF |
| REFERENCE 0554525 | ORIGIN | |

00 Gross Weight 54,220.00 lb
 Tare Weight 37,200.00 lb Inbound -
 Net Weight 17,020.00 lb 23.51 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.51 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

K. CAS



NON-HAZARDOUS WASTE MANIFEST

0554525

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|-------------------------------|---|---|--|-----|------|-------------------------------|------------------------------|----|---|---------|--------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Platte St Golden, CO 80401 303-273-3800 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3800 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name S.D. Greiner Trucking | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Mountain 6500 Hwy 92 Golden, CO 80401 (Allied Waste Research Institute) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | |
| a. Normal Soil | | | CO LK 070906 Y511015 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity D-Drums</th> <th>20. Unit Wt/Vol G-Gallons</th> </tr> <tr> <td>18</td> <td>Y</td> <td>1 Yards</td> <td>1-Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </table> | No. | Type | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G-Gallons | 18 | Y | 1 Yards | 1-Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G-Gallons | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Y | 1 Yards | 1-Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Greiner | | | Signature [Signature] | | Month Day Year 7 5 07 | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | Signature [Signature] | | Month Day Year 7 6 07 | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

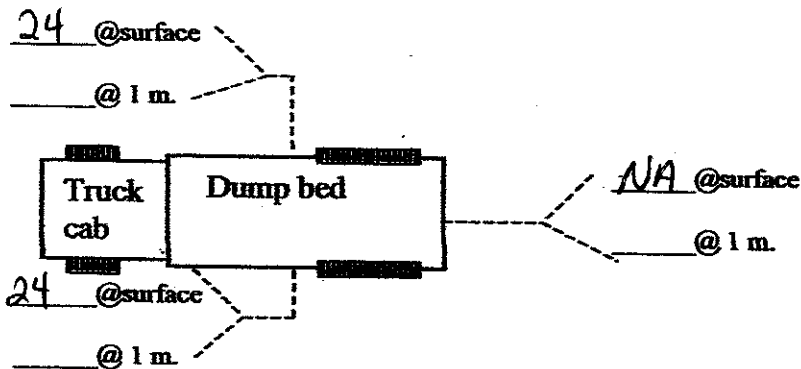
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0928 Surveyed by: CHicks, J Mattson
 Trucking Company: Grove Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

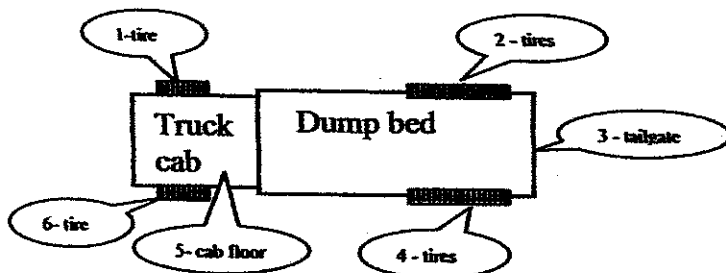
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554E26

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-5900 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-5900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | CO 167 070000 0611045 | | 19. Total Quantity 0 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Santomauro | | Signature | | Month Day Year 9 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature | | Month Day Year 9 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

CCM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE1191E

510100

| | | |
|-------------------------------|------------------|---------------------|
| SITE 01 | TICKET 58951E | GRID 0000 |
| WEIGHMASTER R000060 GINA C | | |
| DATE IN 4 September 2007 | | TIME IN 7:47 am |
| DATE OUT 4 September 2007 | | TIME OUT 7:47 am |
| VEHICLE YE1191E | | ROLL OFF |
| REFERENCE 0254524 | ORIGIN | |

Gross Weight 32,960.00 LB
 Tare Weight 34,400.00 LB
 Net Weight 48,560.00 LB 24.29 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.29 | TN | SUB-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0554526

Please Print or Type

| | | | | | |
|--|--|---|--|-------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO 167 00000 0511915 | | 19. Total Quantity 8 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | Signature | | Month Day Year 11 27 24 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 11 27 24 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

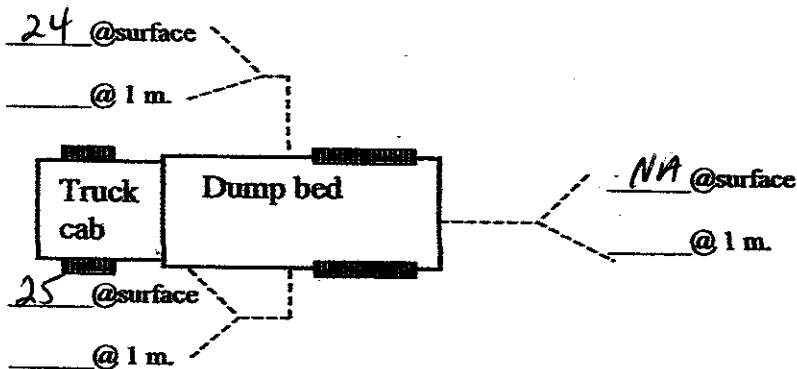
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0932 Surveyed by: CHicks, J Mattson
 Trucking Company: Griener Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

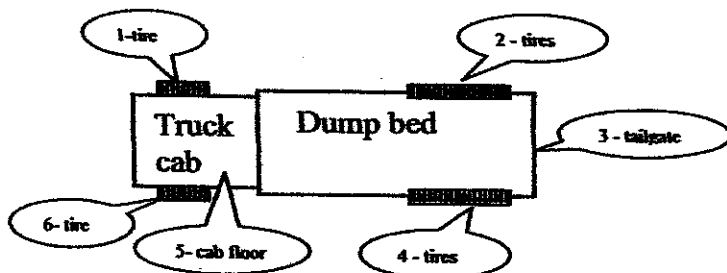
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554527

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Birch St. Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Waste Transfer Station 1500 Birch St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | CO 127170300 5/1/95 | | 19. Total Quantity 0 Drums 0 Gallons 7 Yards 1 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Johnson | | Signature [Signature] | | Month Day Year 12/1/95 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Name] | | Signature [Signature] | | Month Day Year 12/1/95 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519164

FOOTHILLS LANDFILL
 8900 HIGHWAY 95
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511912

| | | |
|------------------------------|------------------|---------------------|
| SITE 01 | TICKET 509519 | GRID 0000 |
| WEIGHMASTER | | |
| PC000080 GINN C | | |
| DATE IN 4 September 2007 | | TIME IN 7:00 am |
| DATE OUT 4 September 2007 | | TIME OUT 9:55 am |
| VEHICLE Y511912 | | ROLL OFF |
| REFERENCE 0054827 | ORIGIN | |

Gross Weight 32,200.00 lb
 Tare Weight 34,980.00 lb
 Net Weight 45,220.00 lb 22.61 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.61 | TN | 34-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0554527

Please print or type.

| | | | | | |
|--|--|---|--|--------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 North St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Harm Soil | | CO1670700081311515 | | 19. Total Quantity 18 Yards | |
| b. | | | | 20. Unit Gallons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Linker | | Signature: [Signature] | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

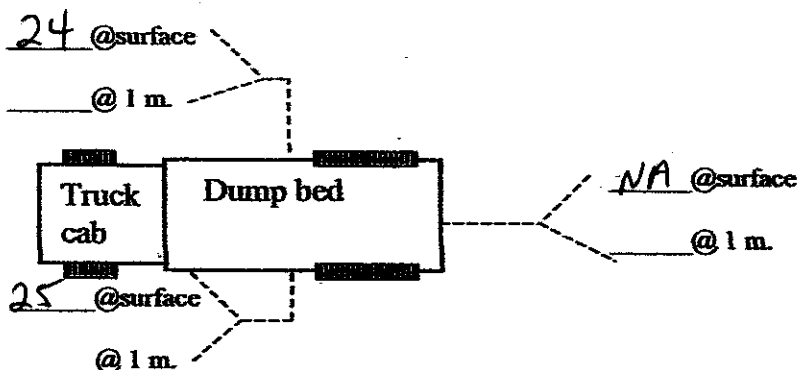
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0942 Surveyed by: CHicks, J Mathson
 Trucking Company: Grene Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

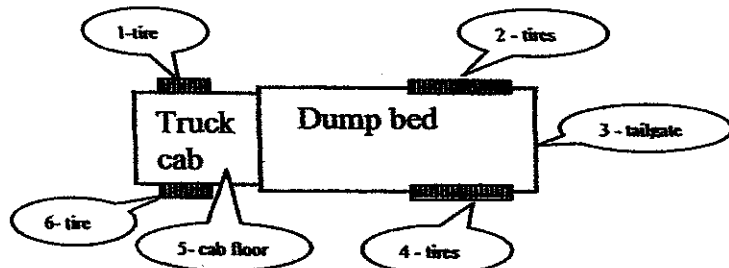
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554528

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Kings St Golden, CO 80401 303-271-3648 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-271-3648 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 8001 Hwy 27 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Name Salt | | CO 157 070310 1511915 | | 19. Total Quantity 7-Yards | |
| b. | | | | 20. Unit T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve S. [Signature] | | Signature [Signature] | | Month Day Year 8 4 98 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name S. J. Vargos | | Signature [Signature] | | Month Day Year 8 4 98 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

510136

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|--------------------------------|------------------|----------------------|
| SITE 01 | TICKET 327524 | GRID 0000 |
| WEIGHMASTER 00000000 OINA C | | |
| DATE IN 4 September 2007 | | TIME IN 10:01 am |
| DATE OUT 4 September 2007 | | TIME OUT 10:01 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 0534328 | ORIGIN | |

Gross Weight 80,320.00 lb
 Tare Weight 35,640.00 lb Inbound ~
 Net Weight 44,680.00 lb 22.34 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.34 | TN | SW-COMT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Signature] 9-4-07



NON-HAZARDOUS WASTE MANIFEST

0554528

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1600 Wagon St Golden, CO 80401 303-271-3008 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-271-3008 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Mountain 1800 Wagon St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. None Sent | | 20187746R 7511015 | | 19. Total Quantity 18 Drums 1 Yards 20. Unit Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Benham | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Scott Vargas | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

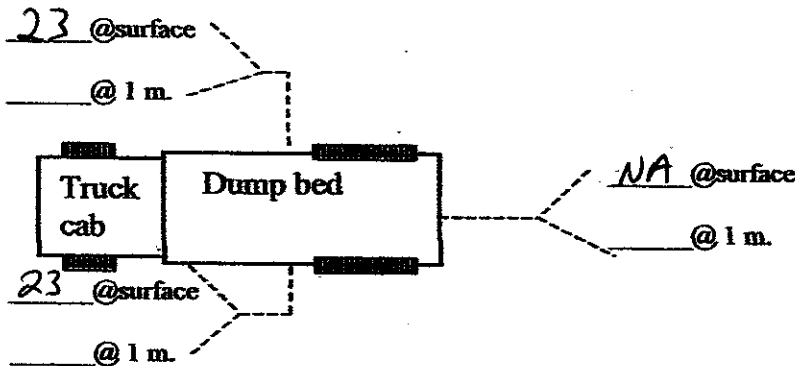
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0948 Surveyed by: CHicks, J Mattson
 Trucking Company: Grene Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

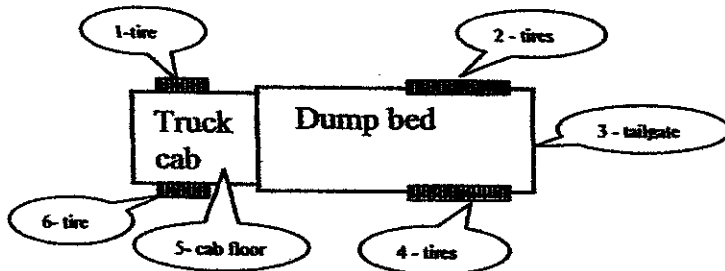
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0554529

Please print or type.

| | | | | | | | | |
|--|--|---|---|---------------------------------|--|--|---------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3900 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St. Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Non-Hazardous b. c. d. | | 17. Allied Waste Approval # and Exp. Date AW-07/000-011015 | | 18. Containers | | 19. Total Quantity 0 Drums 0 Cans Y-Yards T-Tons | 20. Unit Wt/Vol 0 Cans | |
| | | | | No. Type | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Sara Simon | | | | Signature <i>[Signature]</i> | | Month 1 | Day 2 | Year 04 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Fernando Luna | | | | Signature <i>[Signature]</i> | | Month 9 | Day 14 | Year 02 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

519180

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589535 | GRID 0000 |
| WEIGHMASTER | | |
| 4000080 BINA C | | |
| DATE IN 4 September 2007 | | TIME IN 10:17 am |
| DATE OUT 4 September 2007 | | TIME OUT 10:17 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0534529 | ORIGIN | |

OS Gross Weight 78,540.00 lb
 Tare Weight 34,580.00 lb
 Net Weight 41,960.00 lb 20.99 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.99 | TN | SW-CONT SOIL | | | | |
| 1.00 | LF | ENVIRONMENTAL FEE | | | | |
| 1.00 | LF | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



ALLIED WASTE



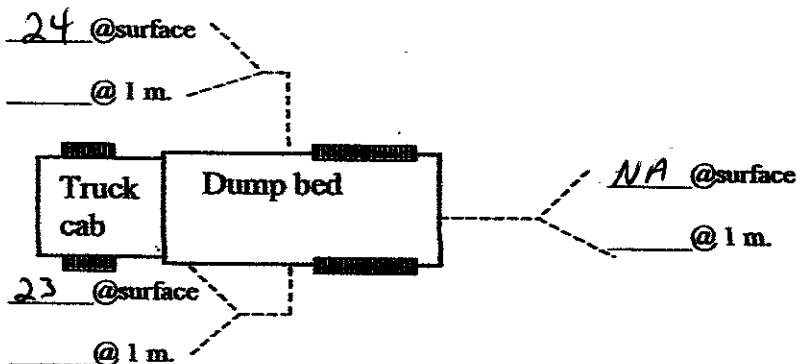
Please print or type

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9/4/07 0952 Surveyed by: CHicks, J Mathson
 Trucking Company: Greene Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

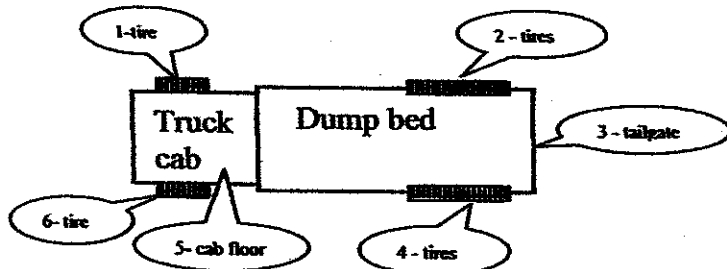
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 1 cpm | β 270 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 dpm | 571.6 dpm | |



23

NON-HAZARDOUS WASTE MANIFEST

0554530

Please print or type

| | | | | | |
|--|--|---|---|-----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-5908 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-5908 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Haz b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 157 07/01/97-5/1/98 | | 18. Containers No. Type | |
| | | | | 19. Total Quantity Drums | |
| | | | | 20. Unit Wt/Vol Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brunner | | Signature | | Month Day Year 7 11 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHILLAN | | Signature | | Month Day Year 9 11 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

519178

FOOTHILLS LANDFILL
 8700 HIGHWAY 95
 GOLDEN
 CO
 800606
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------------------|------------------|----------------------|
| SITE 01 | TICKET 589531 | GRID 0000 |
| WEIGHMASTER | | |
| P000060 BID# C | | |
| DATE IN 4 September 2007 | | TIME IN 10:10 am |
| DATE OUT 4 September 2007 | | TIME OUT 10:11 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 0554530 | ORIGIN | |

OS Gross Weight 85,840.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 50,440.00 lb 25.22 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 25.22 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



73

NON-HAZARDOUS WASTE MANIFEST

0554530

Please print or type

| | | | | | |
|--|--|---|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Lincoln St. Garden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Lincoln St. Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Nickel Sulfate b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO LOT STORAGE 1514019 | | 18. Containers No. Type 18 Yards | |
| 19. Total Quantity Yards | | 20. Unit Wt/Vol Tons | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brennan | | Signature | | Month Day Year 7 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHILAN | | Signature | | Month Day Year 9 11 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

COM000033

Pile B 8/31/07

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|----------------------|
| Marquez 961 | 8/31/07 | 0620 | 0634 | 18 cy | 78.9 |
| JD 04 | | 0620 | 0641 | | 77.5 |
| Collazo 13 | | 0630 | 0647 | | 81.4 ^{78.8} |
| Marquez 96 | | 0630 | 0652 | | 77 |
| Murray 461 | | 0630 | 0700 | | 81.4 |
| Grieve 23 | | 0630 | 0707 | | 80.4 |
| Grieve 8 | | 0640 | 0712 | | 77.4 |
| Grieve 24 | | 0640 | 0719 | | 79.9 |
| JD 03/01 | | 0650 | 0723 | | 75.7 |
| Grieve 12 | | 0700 | 0729 | | 79.9 |
| Ruiz 95 | | 0710 | 0735 | | 77.4 |
| Marquez 961 | | 0725 | 0742 | | 80.5 |
| JD 04 | | 0735 | 0747 | | 76.7 |
| Murray 461 | | 0755 | 0813 | | 82.4 |
| Grieve 23 | | 0800 | 0819 | | 84.4 |
| Grieve 8 | | 0800 | 0829 | | 85.1 |
| Grieve 24 | | 0815 | 0835 | | 84.5 |
| Callazo 13 | | 0825 | 0840 | | 84.0 |
| Marquez 96 | | 0830 | 0848 | | 79.3 |
| JD 01 | ✓ | 0830 | 0852 | ✓ | 79.6 |

Mountain Man Welding & Fabrication

Rick

363-798-6822

8/31/07

Truck Departure Record Form

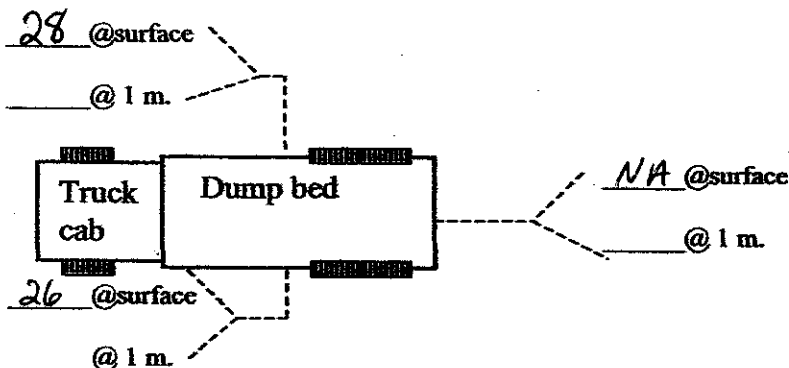
| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|------|
| Grieve 12 | 8/31/07 | 0845 | 0858 | 18 | 85.9 |
| Ruiz 95 | - | 0850 | 0903 | | 81.1 |
| Marguez 961 | - | 0900 | 0910 | | 82.1 |
| JD 04 | - | 0905 | 0915 | | 86.3 |
| Murray 461 | - | 0915 | 0926 | | 83.4 |
| Grieve 23 | - | 0920 | 0932 | | 87.3 |
| Grieve 8 | - | 0925 | 0938 | | 84.6 |
| Grieve 24 | - | 0930 | 0944 | | 85.2 |
| Collazo 13 | - | 0935 | 0950 | | 84.1 |
| Marguez 96 | - | 0940 | 0956 | | 81.5 |
| Grieve 12 | - | 0945 | 1002 | | 87.1 |
| JD 01 | - | 0955 | 1009 | | 80.6 |
| Ruiz 95 | - | 0955 | 1014 | | 82.7 |
| Marguez 961 | - | 1014 | 1022 | | 80.4 |
| JD 04 | - | 1020 | 1027 | | 78.2 |
| Grieve 23 | - | 1036 | 1044 | | 86.0 |
| Grieve 8 | - | 1037 | 1051 | | 84.7 |
| | | | | | |
| | | | | | |
| | | | | | |

37 loads

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0634 ³¹ Surveyed by: Chicks J Mattson
 Trucking Company: Griev Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

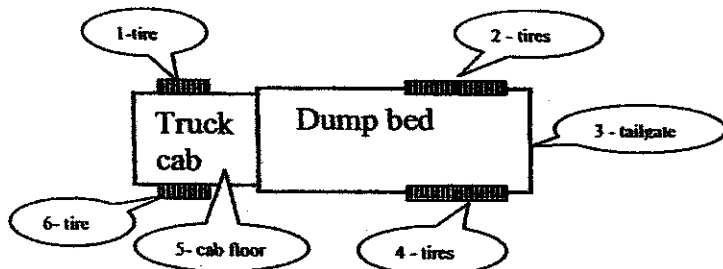
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

961
0592015

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Orem, UT 84401 4. Phone () 801-225-3500 | | | | 5. Generating Location (if different) Ogden School of Mines Research Institute North West of 12th and 13th St Ogden, UT 84401 6. Phone () 801-273-3500 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1700 W. 1st St. Ogden, UT 84401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Iron Sulfide | | 00187070001511315 | | 19. Total Quantity 1000 lbs | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month Day Year 12/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name James S. [Signature] | | | | Signature [Signature] Month Day Year 12/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

815430

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 588333 | | 0000 | |
| WEIGHMASTER | | | | | |
| PC00060 SINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 31 August 2007 | | | 6:50 am | | |
| DATE OUT | | | TIME OUT | | |
| 31 August 2007 | | | 6:50 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0592015 | | | | | |

Gross Weight 78,940.00 lb
 Tare Weight 34,400.00 lb Inbound -
 Net Weight 44,540.00 lb 22.27 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.27 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE A. B.



NON-HAZARDOUS WASTE MANIFEST

961
0592015

Please print or type.

| | | | | | |
|--|--|---|---|------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of 1 | |
| 3. Generator's Name and Mailing Address 1500 Lincoln St. Golden, CO 80401 303-273-3900 | | | 5. Generating Location (if different) North West of 12th and York St Golden, CO 80401 303-273-3900 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 18011 Hwy 30 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date CO 007 675008 1-31-19-15 | | 18. Containers No. Type | |
| a. Non-Haz | | | | 19. Total Quantity Pounds | |
| b. | | | | 20. Unit WT/Vol | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 8/31/15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name James B. [unclear] | | Signature | | Month Day Year 9/1/15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [unclear] | | Signature | | Month Day Year [unclear] | |

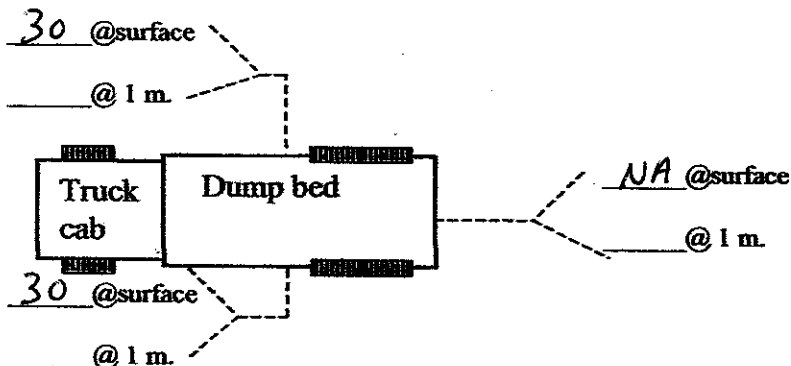
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0641 Surveyed by: C. Hicks J. Matson
 Trucking Company: Grieve Truck license plate no. /state: JD 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

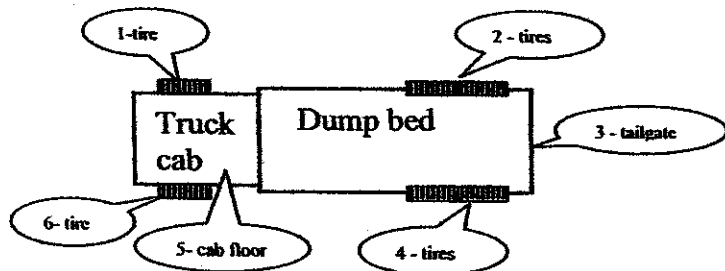
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643494

Please print or type

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Golden, CO 80401 303-273-0380 | | | | 5. Generating Location (if different) School of Mines Research Building North West of 12th and Spruce Golden, CO 80401 303-273-0380 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1501 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Hazardous Waste | | 17. Allied Waste Approval # and Exp. Date 01/15/99 - 12/31/00 | | 18. Containers No. Type | |
| b. | | | | 19. Total Quantity 1000 lbs | |
| c. | | | | 20. Unit Wt/Vol 1000 lbs | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature [Signature] | | Month Day Year 8/31/99 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sonja Vortel | | Signature [Signature] | | Month Day Year 8/31/99 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

315451

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | EB8834 | 0000 |
| WEIGHMASTER | | |
| 0000030 BINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 6:56 AM | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 6:56 AM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0643474 | | |

Gross Weight 77,460.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 41,820.00 lb 20.91 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.91 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

8-31-07



NON-HAZARDOUS WASTE MANIFEST

0643484

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|--|--------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Columbia School of Marine Technology 1400 North West of 12th and Birch St. Salem, OR 97301 503-270-4001 | | | | 5. Generating Location (if different) Columbia School of Marine Technology 1400 North West of 12th and Birch St. Salem, OR 97301 503-270-4001 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address ACI (AKA) # 06000000000000000000 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Metal b. c. d. | | 17. Allied Waste Approval # and Exp. Date 06-15-2009 to 12-31-2010 | | 18. Containers | | 19. Total Quantity 6 Drums (600 lbs) | 20. Unit Wt/Vol Drums |
| | | | | No. | Type | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name: <u>Steve Brennan</u> | | | | Signature: <u>[Signature]</u> | | Month: <u>8</u> Day: <u>13</u> Year: <u>07</u> | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: <u>Sanjay Varma</u> | | | | Signature: <u>[Signature]</u> | | Month: Day: Year: | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: Day: Year: <u>6</u> <u>2</u> <u>07</u> | |

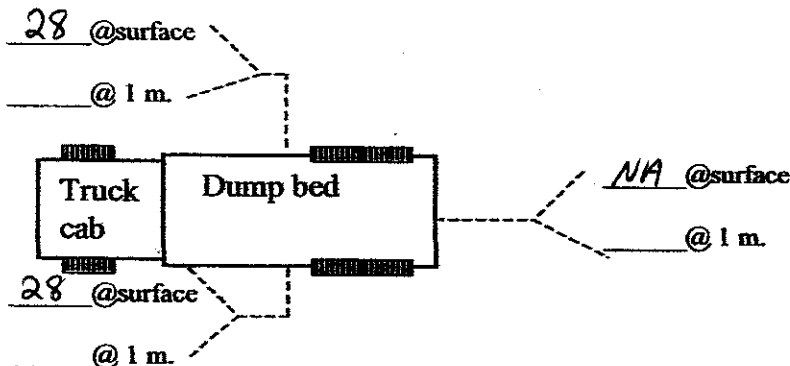
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 ³¹ 0647 Surveyed by: Citichs J Mattson
 Trucking Company: Gnere Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

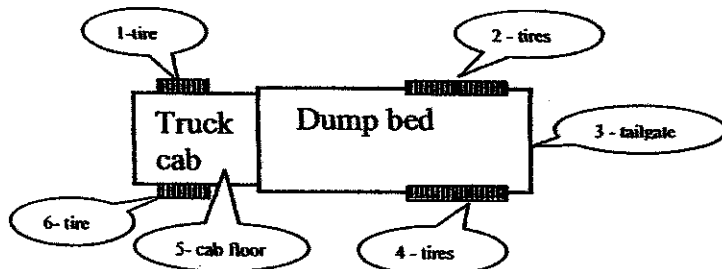
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 100 cpm | 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643495

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-271-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West on 12th and Birch St Golden, CO 80401 303-271-3000 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Toledo Landfill 1500 Illinois St Golden, CO 80401 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Stone Bed | | 2017/07/0008 1511916 | | 19. Total Quantity | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | 18 | |
| d. | | | | Yards 1-cm | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Serrano | | | | Signature: [Signature] Month: 8 Day: 31 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Robert O'Hara Lopez | | | | Signature: [Signature] Month: 08 Day: 31 Year: 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |

GENERATOR'S COPY

COM000033

515454

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 565837 | 0000 |
| WEIGHMASTER | | |
| R000050 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:05 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 7:05 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0643495 | | |

Gross Weight 79,780.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 44,080.00 lb 22.04 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.04 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643495

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Main St Garden, CO 80401 Phone () 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 Phone () 303-273-3000 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Northwest Garden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. | | | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name SIC E. Berman | | | | Signature Month Day Year 12/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name K. Lopez | | | | Signature Month Day Year 06/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

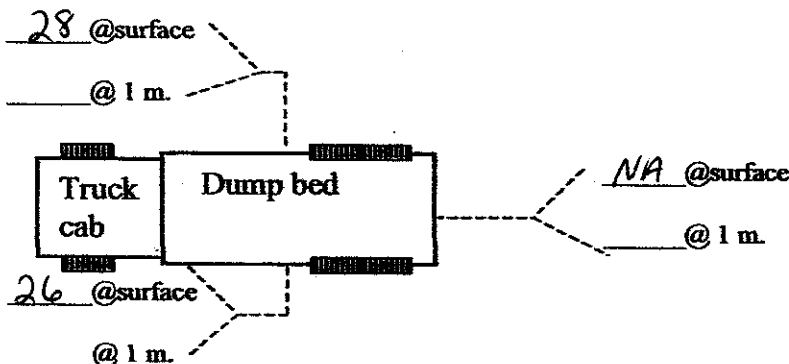
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 ³¹ 0652 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Griener Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

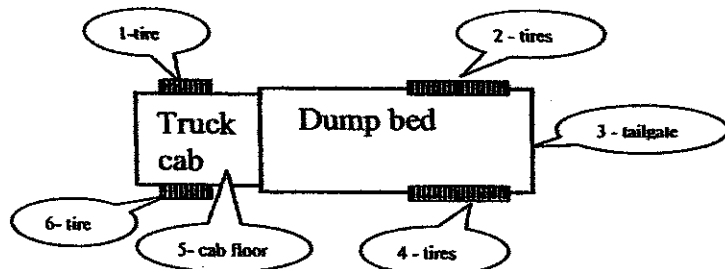
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



0643496

| | | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|--|--------------------|-----------------|--------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address 1000 North St. Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 10th and Court St. Golden, CO 80401 303-273-3000 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothill Center 10001 North St. Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | | |
| a. Non-Hazardous | | | CO 107 0425 10/1/96 | | No. Type | | 10 Drums | 10 Drums | | |
| b. | | | | | | | 10 Drums | 10 Drums | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Higgins | | | | Signature | | | | Month 12 | Day 31 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Lee M. H. H. H. | | | | Signature | | | | Month 12 | Day 31 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |

COM000033

GENERATOR'S COPY

515457

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 568540 | 0000 |
| WEIGHMASTER | | |
| RC00060 SINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:10 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 7:10 am | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 0643476 | | |

Gross Weight 76,960.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 40,380.00 lb 20.19 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.19 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

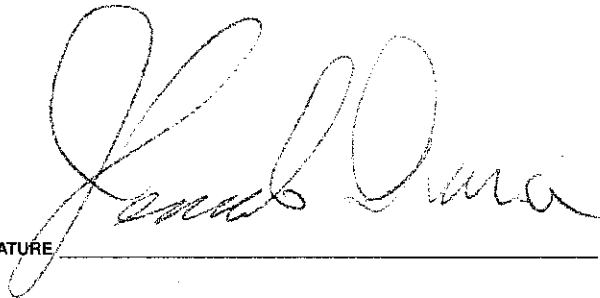
NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE






NON-HAZARDOUS WASTE MANIFEST

0643496

Please print or type

| | | | | | | |
|--|--|--------------------------|---|---|-------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | |
| 3. Generator's Name and Mailing Address 1700 Avenue 21 Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 10th and Grand Golden, CO 80401 303-273-3000 | | |
| 4. Phone () | | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Schiff's Lumber 2000 11th Ave Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | | No. Type | |
| a. Non-Haz | | | 2015774005-181215 | | 19. Total Quantity 2 Drums | |
| b. | | | | | 20. Unit Drums | |
| c. | | | | | | |
| d. | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | |
| Printed/Typed Name: Steve Williams | | | Signature: [Signature] | | | |
| | | | Month Day Year 8/3/07 | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name: [Signature] | | | Signature: [Signature] | | | |
| | | | Month Day Year 8/3/07 | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name | | | Signature | | | |
| | | | Month Day Year | | | |
| 26. Emergency Indication Space | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | |
| Printed/Typed Name | | | Signature | | | |
| | | | Month Day Year 7/2/07 | | | |

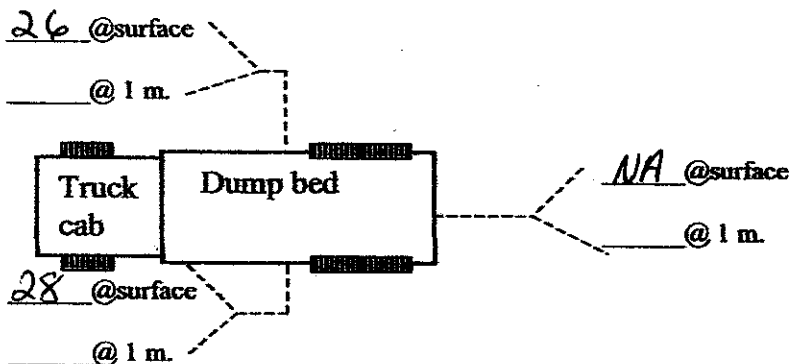
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0700 Surveyed by: Chicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

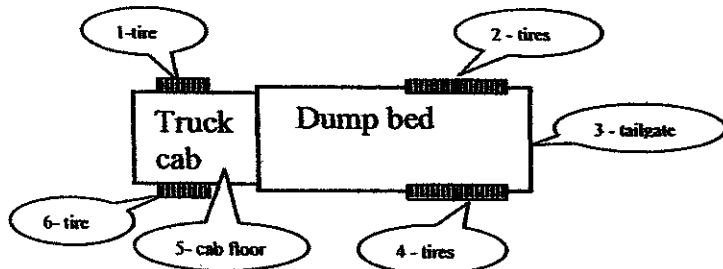
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643500

461

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1400 Evans St Golden, CO 80401 303-272-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-272-3998 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1400 Evans St Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. None listed | | CO 007 470068 1011015 | | 17 4 1-yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brown | | Signature | | Month Day Year 12 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | Signature | | Month Day Year 12 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515459

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558042 | 0000 |
| WEIGHMASTER | | |
| PC000000 BINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:16 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 7:16 am | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 0640500 | | |

Gross Weight 81,400.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 47,140.00 lb 23.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.57 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0643500

461

Please print or type.

| | | | | | | | |
|--|--|--|--|--|--|--|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1400 Birch St Golden, CO 80401 303-273-5986 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-5986 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1400 Birch St Golden, CO 303-273-5986 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Waste b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00-007-00000-01-13-15 | | 18. Containers | | 19. Total Quantity 0 Drums 0 Yards 0 Tons | 20. Unit Wt/Vol 0 Drums 0 Yards 0 Tons |
| | | | | No. Type | | | |
| | | | | 12 4 | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brown | | | | Signature [Signature] | | Month Day Year 6 3 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] | | Month Day Year 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year 10 1 07 | |

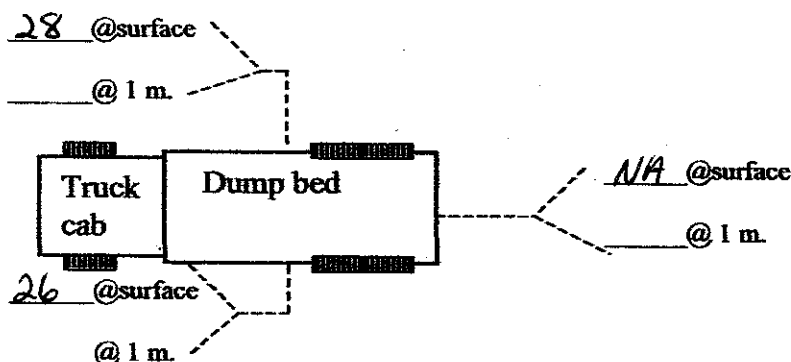
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0707 Surveyed by: CHICKS J Mattson
 Trucking Company: Grievre Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

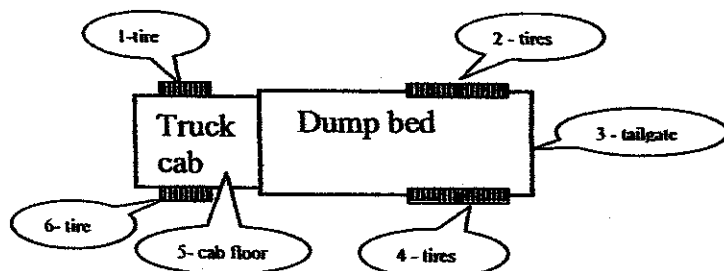
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643499

Please print or type

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Owensboro, KY 40301 4. Phone () 502-273-2400 | | | | 5. Generating Location (if different) University of Kentucky School of Mines Research Institute North West on 12th and Barclay St Lexington, KY 40506 6. Phone () 502-273-2400 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address COLUMBIA UNIVERSITY 1000 Hwy 70 Columbia, KY 40302 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Heavy Soil | | 00107 070914-011915 | | | | 7-Yards | 1-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month 8 | Day 31 | Year 14 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Mark Phelan | | | | Signature [Signature] | | Month 8 | Day 31 | Year 14 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

515463

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558846 | 0000 |
| WEIGHMASTER | | |
| PC000080 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:23 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 7:23 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0643499 | | |

Gross Weight 80,440.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 45,340.00 lb 22.67 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.67 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0643499

Please print or type.

| | | | | | |
|--|--|----------------------------|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Golden, CO 80401 Phone () 303-273-3096 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Decatur St Golden, CO 80401 Phone () 303-273-3096 | |
| 4. Phone () | | 6. Phone () | | 7. Transporter #1 Company Name | |
| 8. US EPA ID Number | | 9. Transporter #1's Phone | | 10. Transporter #2 Company Name | |
| 11. US EPA ID Number | | 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1501 Illinois St Golden, CO 80401 | |
| 14. US EPA ID Number | | 15. Facility's Phone | | 16. Waste Shipping Name and Description | |
| 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | |
| | | No. Type | | 20. Unit Wt/Vol | |
| a. | | | | Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature | | Month Day Year 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 7 | |

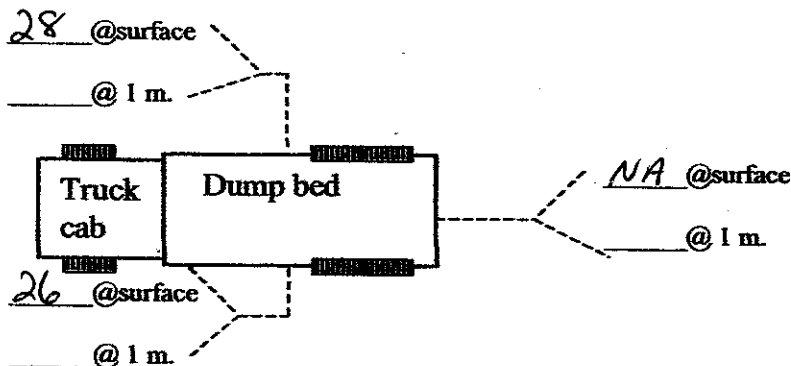
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 ³¹ 0712 Surveyed by: Chicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

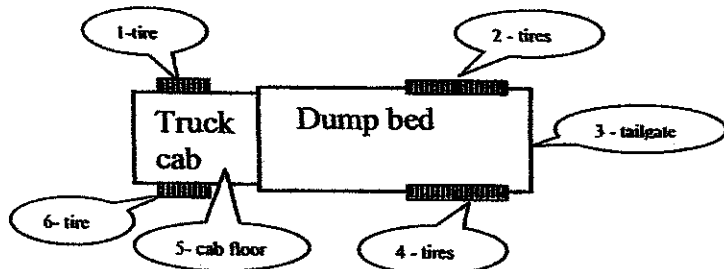
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X0 cpm | 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0843497

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|---|------|---|-----------------|--|--|-----|------|--------------------|-----------------|----|---|---------|------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1000 Blinn Rd Cedar Rapids, IA 52401 4. Phone () 319-733-3898 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Grand Cedar, IA 50401 5. Phone () 319-733-3898 | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Cochran Landfill 1000 Hwy 20 Cedar, IA 50401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Heavy Soil | | 30167670503251315 | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>✓</td> <td>6-Yards</td> <td>Time</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | 18 | ✓ | 6-Yards | Time | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| 18 | ✓ | 6-Yards | Time | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name <i>Steve Beaman</i> | | Signature <i>[Signature]</i> | | Month Day Year 08 31 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name <i>[Signature]</i> | | Signature <i>Chuck Fox</i> | | Month Day Year 08 31 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y51191E

523497

| | | |
|----------------------------|------------------|---------------------|
| SITE 01 | TICKET 588847 | GRID 0000 |
| WEIGHMASTER | | |
| RCC0060 GINA C | | |
| DATE IN 31 August 2007 | | TIME IN 7:26 am |
| DATE OUT 31 August 2007 | | TIME OUT 7:26 am |
| VEHICLE Y51191E | | ROLL OFF |
| REFERENCE 0643497 | ORIGIN | |

Gross Weight 77,360.00 lb
 Tare Weight 36,540.00 lb Inbound -
 Net Weight 40,820.00 lb 20.41 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.41 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0643497

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1101 West 1st St Garden, CO 80401 Phone () 303-273-0000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and 15th St Garden, CO 80401 Phone () 303-273-0000 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 13. Designated T/S/D Facility Name and Site Address 1101 West 1st St Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | 303-273-0000 | | 18 ✓ | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Yards | | | | | |
| 20. Unit WT/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Deaton | | Signature [Signature] | | Month Day Year 08 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Fox | | Signature [Signature] | | Month Day Year 08 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

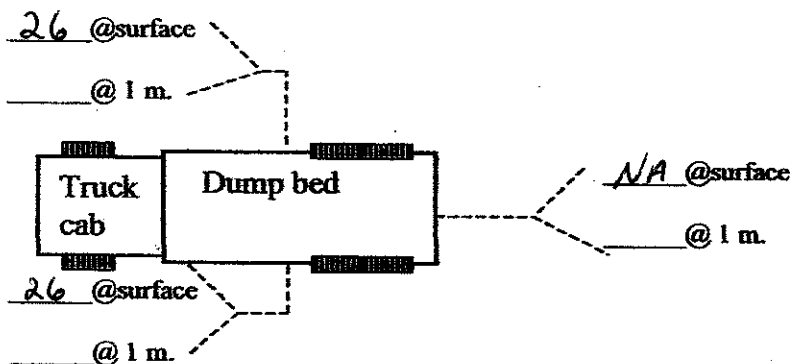
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0719 Surveyed by: Chicks J Mattson
 Trucking Company: Giere Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

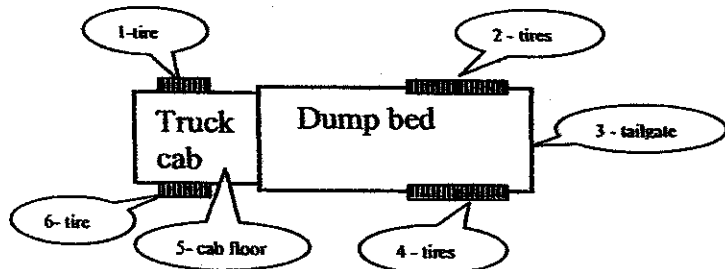
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
930603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

24 315486

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 565547 | 0000 |
| WEIGHMASTER | | |
| PC00060 GINA C | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 7:34 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 7:34 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0643498 | | |

Gross Weight 79,900.00 lb
Tare Weight 37,200.00 lb
Net Weight 42,700.00 lb 21.35 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.35 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Kens



NON-HAZARDOUS WASTE MANIFEST

0643498

Please print or type.

| | | | | | | | | |
|--|--|--|--|--|------|-------------------------------|----------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1900 Illinois St Golden, CO 80401 303-773-3500 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-773-3500 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1900 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. North Soil | | 17. Allied Waste Approval # and Exp. Date 00197-00081611915 | | 18. Containers | | 19. Total Quantity C drums | 20. Unit Wt/Vol C drums | |
| | | | | No. | Type | | | |
| b. | | | | 18 | Y | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Grieve | | | | Signature [Signature] | | Month 2 | Day 31 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] | | Month 08 | Day 31 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

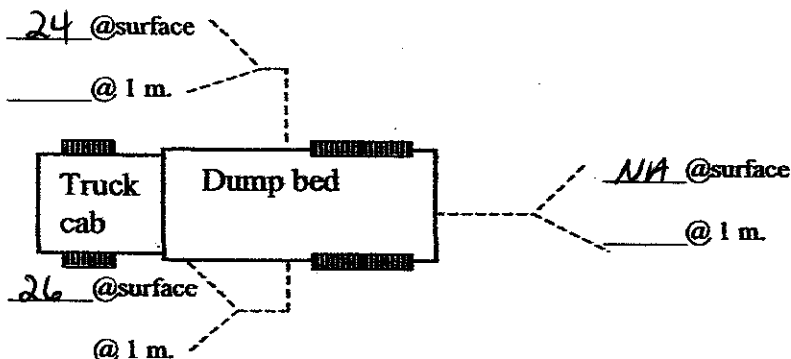
GENERATOR'S COPY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0723 Surveyed by: CHICKS J Mattson
 Trucking Company: Gnere Truck license plate no. /state: J001

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

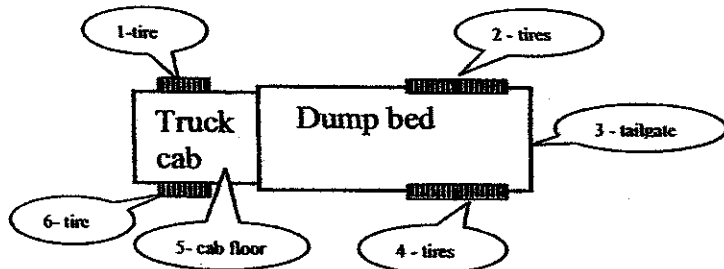
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X0 cpm | β 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0643491

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3400 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and I-26 Golden, CO 80401 303-273-3400 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 17700 E. 1st Ave Denver, CO 80231 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Normal | | CO 187070001 VC 10815 | | 19. Total Quantity 0 Drums Y-units -Tons | |
| b. | | | | 20. Unit Wt/Vol -Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Erdman | | Signature | | Month Day Year 12 31 11 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515479

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | | | | |
|----------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 588853 | | 0000 | |
| WEIGHMASTER | | | | | |
| K100060 GINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 31 August 2007 | | | 7:38 am | | |
| DATE OUT | | | TIME OUT | | |
| 31 August 2007 | | | 7:48 am | | |
| VEHICLE | | | ROLL OFF | | |
| YS11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0243491 | | | | | |

00 Gross Weight 75,700.00 lb
 Tare Weight 35,140.00 lb
 Net Weight 40,560.00 lb 20.28 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.28 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0643491

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 S. 10th St. Casper, WY 82401 307-272-3086 | | | | 5. Generating Location (if different) School of Mines Research Center North West of 12th and North St Casper, WY 82401 307-272-3086 | |
| 4. Phone () 307-272-3086 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 S. 10th St. Casper, WY 82401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Hazardous Waste | | 17. Allied Waste Approval # and Exp. Date 0016757604 01/01/05 | | 18. Containers No. Type 17 55-gal Drums | |
| b. | | | | 19. Total Quantity Drums | |
| c. | | | | 20. Unit WT/Vol Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 31 14 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name L. Benkman | | Signature | | Month Day Year 31 14 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 31 14 | |

TRANSPORTER #1

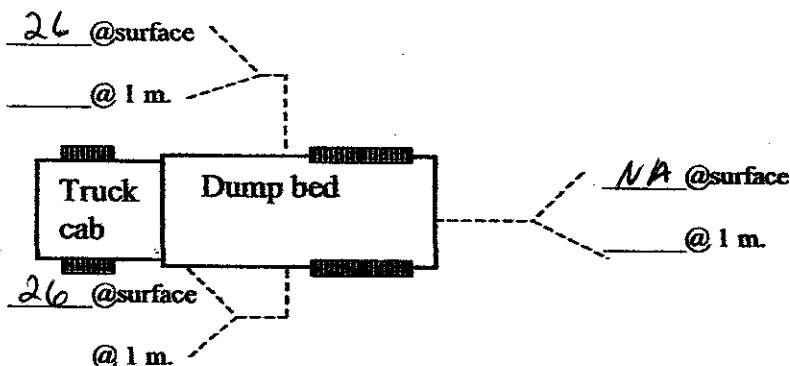
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0729 Surveyed by: Chicks J. Mattson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

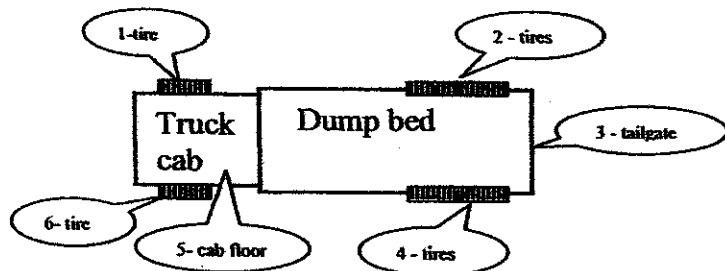
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X 0 cpm | 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0643492

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-0808 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Baseline Golden, CO 80401 303-273-0808 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Grove Trucking 7/11 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | CO167070900151315 | | 6 1-Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John J. Olson | | Signature | | Month Day Year 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

12

515480

| | | |
|-----------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 555552 | 0000 |
| WEIGHMASTER | | |
| K0000000 CINA C | | |
| DATE IN | | TIME IN |
| 31 August 2007 | | 7:47 AM |
| DATE OUT | | TIME OUT |
| 31 August 2007 | | 7:47 AM |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0643492 | | |

Gross Weight 79,880.00 lb
 Tare Weight 37,700.00 lb Inbound -
 Net Weight 42,180.00 lb 21.09 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.09 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643492

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3696 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3696 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Garco Trucking 7/11 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description Hazardous | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers No. Type | |
| a. | | b. | | 19. Total Quantity 6 Yards | |
| b. | | c. | | 20. Unit Wt/Vol Cubic Yards | |
| c. | | d. | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Zimmerman | | Signature | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John J. Olson | | Signature | | Month Day Year 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

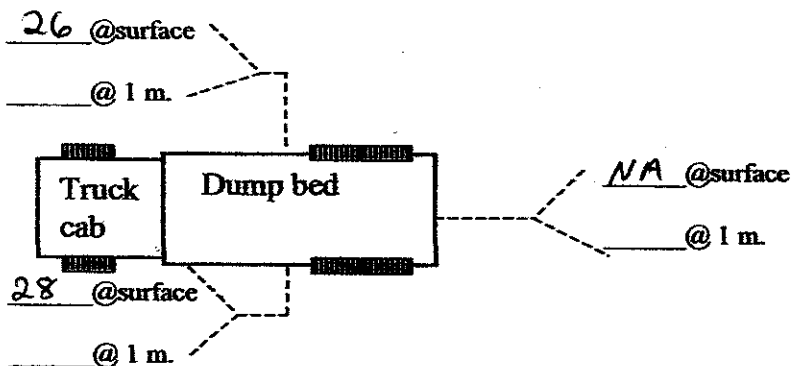
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0735 ³¹ Surveyed by: C. Hicks J. Matheson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

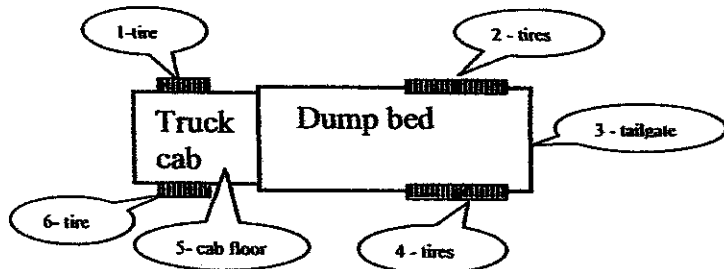
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | p 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643493

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1575 Birch St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 | |
| 4. Phone () 303-273-1806 | | | | 6. Phone () 303-273-1806 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Facility Name: Address: Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Flammable | | 00007-00000 05/19/16 | | 19. Total Quantity 0 Drums 0 Containers | |
| b. | | | | 20. Unit Yards Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve G. [Signature] | | | | Signature: [Signature] Month: 8 Day: 31 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: 8 Day: 31 Year: 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515475

FOOTHILLS LANDFILL
 3900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | EGG858 | 0000 |
| WEIGHMASTER | | |
| FC0000 SNA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:52 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 7:53 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0643493 | | |

CG Gross Weight 77,460.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 40,480.00 lb 20.24 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643493

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1570 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Dixon St Golden, CO 80401 303 271 3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Transwest Express 1500 1st St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. New Sol | | 01117-01548-1511915 | | 19. Total Quantity D Drums 100 20. Unit Wt/Vol Lbs 1000 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Kohnen | | Signature | | Month Day Year 8/31/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8/31/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8/31/97 | |

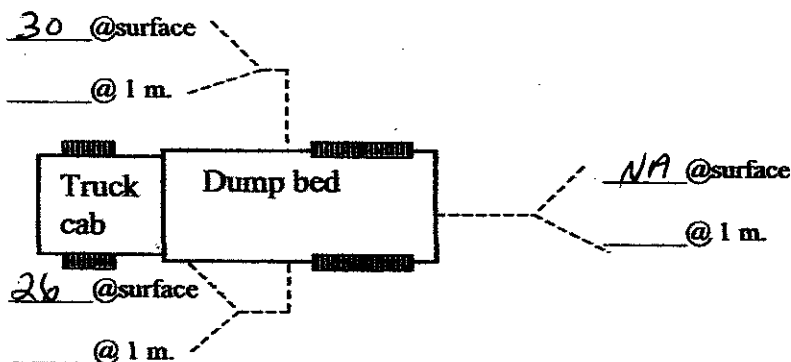
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0742 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Grievre Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

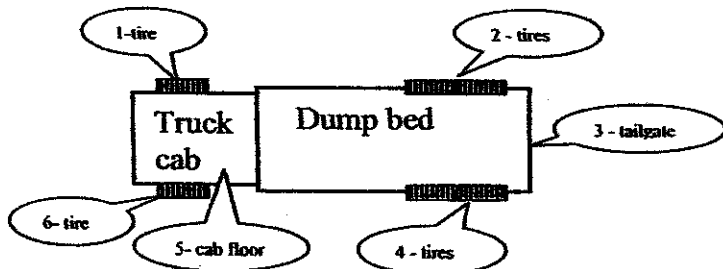
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592003

961

Please print or type.

| | | | | | | | | |
|--|--|--|--|--|------|--------------------|-----------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1100 N. 1st St. Garden, CO 80401 303-273-3040 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3040 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1100 N. 1st St. Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L27 2/28/98 11/15/98 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name <i>Steve Beckman</i> | | | | Signature <i>[Signature]</i> | | Month | Day | Year |
| | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name <i>Steve Beckman</i> | | | | Signature <i>[Signature]</i> | | Month | Day | Year |
| | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| | | | | | | | | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8700 HIGHWAY 92
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

518475

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | Y552357 | 0000 |
| WEIGHMASTER | | |
| PC000060 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:53 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 7:55 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592002 | | |

03 Gross Weight 80,520.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 46,120.00 lb 23.06 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE A. M.



NON-HAZARDOUS WASTE MANIFEST

0592003

961

Please print or type.

| | | | | | |
|--|------|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Winding Mt Golden, CO 80401 303 273-3336 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303 273-3336 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address Booths (Landfill) 10011 Hwy 60 Golden, CO 80401 (Allied Waste #000000) (Generator's Approval #000000) | | 14. US EPA ID Number | |
| 15. Facility's Phone | | 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | |
| 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| No. | Type | | | | |
| a. | | | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name <i>Steve Beckman</i> | | | | Signature <i>[Signature]</i> | |
| | | | | Month Day Year <i>8/31/96</i> | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name <i>Michael Thompson</i> | | | | Signature <i>[Signature]</i> | |
| | | | | Month Day Year <i>9/2/96</i> | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

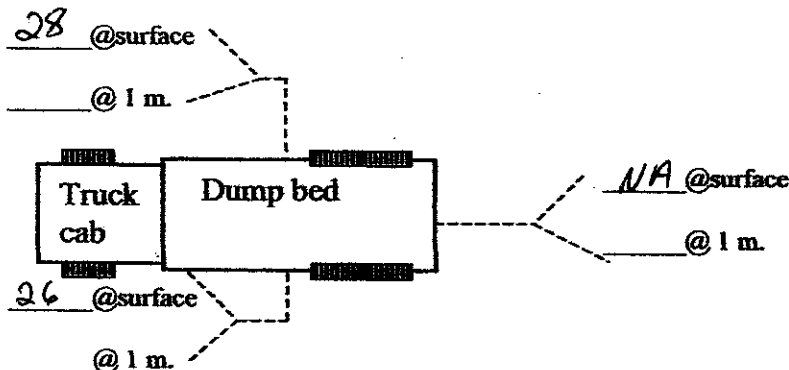
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0747 Surveyed by: Chicks J Mattson
 Trucking Company: Grievre Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

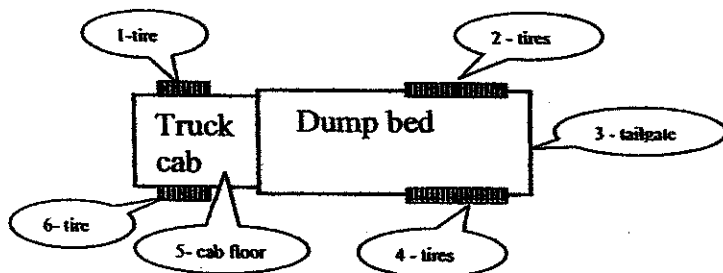
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

J064
0592004

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 28th St. Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 28th St. Golden, CO 80401 ACCORDANCE WITH COLORADO STATE DEPARTMENT OF REVENUE | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Iron Soil | | 0016773000 12/15/15 | | 1 Yard | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Reardon | | | | Signature: [Signature] | |
| | | | | Month: 3 Day: 31 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Santiago Vargas | | | | Signature: [Signature] | |
| | | | | Month: Day: Year: | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: | |
| | | | | Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: | |
| | | | | Month: Day: Year: | |

GENERATOR'S COPY

COM000033

515476

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 528861 | 0000 |
| WEIGHMASTER | | |
| R000080 SINR C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 8:02 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 8:02 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0572004 | | |

Gross Weight 76,740.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 41,100.00 lb 20.55 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.55 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

8-31-07



NON-HAZARDOUS WASTE MANIFEST

J004
0592004

Please print or type.

| | | | | | | | | | |
|--|--|--|--|--|--|--------------------|--|------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 Phone (303) 273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West at 12th and Irbach St Golden, CO 80401 Phone (303) 273-3000 | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Facility Location Site Address City, State, Zip | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Iron Ore b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00127-00001-1511315 | | 18. Containers | | 19. Total Quantity | | 20. Unit | |
| | | | | No. Type | | Drums | | Drums | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Richman | | | | Signature [Signature] | | | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature [Signature] | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |

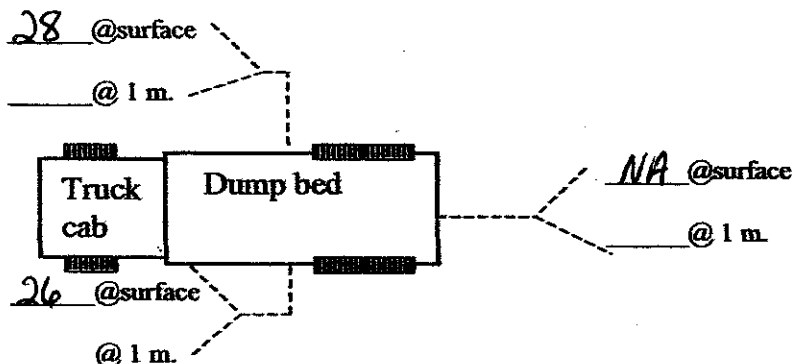
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 ³¹ 0813 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Griener Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

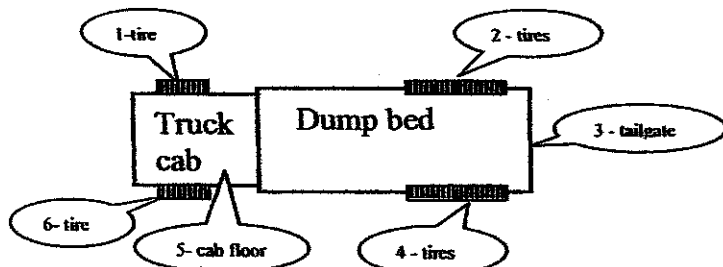
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592005

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|----|---|---------|--------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-275-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-275-3000 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Heavy Soil | | CO 187 W/GR 15/11/95 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>18</td> <td>Y</td> <td>1-Yards</td> <td>1-Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | 18 | Y | 1-Yards | 1-Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Y | 1-Yards | 1-Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve L. Hume | | | | Signature [Signature] Month 8 Day 31 Year 97 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Mike Hume | | | | Signature [Signature] Month 8 Day 31 Year 97 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

515485

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN

CO
760600

COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: 7511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555868 | 0000 |
| WEIGHMASTER | | |
| F000050 SINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 8:32 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 8:32 am | |
| VEHICLE | ROLL OFF | |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 0592005 | | |

Gross Weight 82,440.00 lb
Tare Weight 34,260.00 lb
Net Weight 48,180.00 lb 24.09 TN

Inbound ~

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.09 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592005

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Smith Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Shavings | | 2018-07-06-11-10-15 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Drums | | | | | |
| 20. Unit Wt/Vol 100 lbs | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Lindgren | | Signature <i>[Signature]</i> | | Month Day Year 8/31/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murphy | | Signature <i>[Signature]</i> | | Month Day Year 8/31/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

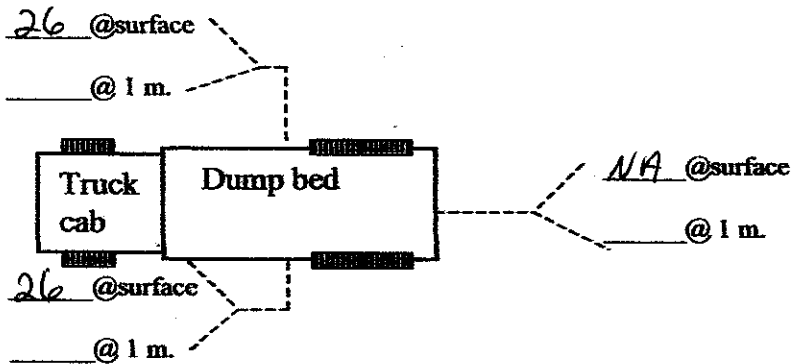
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0819 Surveyed by: CHICKS J Matson

Trucking Company: Griev Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

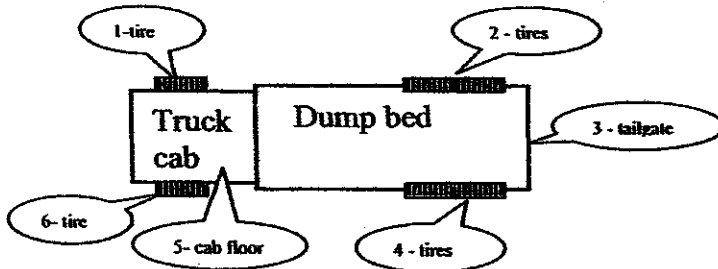
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | X 0 cpm | 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592016

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 703-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Lincoln St Golden, CO 80401 703-273-3990 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado State 17901 Hwy 67 Durango, CO 81301 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | b. | | c. | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month | | | | Day | |
| Year | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month | | | | Day | |
| Year | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month | | | | Day | |
| Year | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month | | | | Day | |
| Year | | | | | |

GENERATOR'S COPY

COM000033

510488

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585871 | 0000 |
| WEIGHMASTER | | |
| PC000080 GIMA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 8:36 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 9:36 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0592016 | | |

Gross Weight 84,360.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 49,260.00 lb 24.63 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.63 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0592016

Please print or type.

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Cherry St Denver, CO 80202 Phone () 703-273-0998 | | | | 5. Generating Location (if different) 1000 West of 12th and Jackson Denver, CO 80202 Phone () 703-273-0998 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Cherry St Denver, CO 80202 (owner) 703-273-0998 | | 17. Allied Waste Approval # and Exp. Date 0011020401/011915 | | 20. Unit Wt/Vol 1 tons | |
| 16. Waste Shipping Name and Description a. Non-Haz | | 18. Containers No. Type 18 55-gal drums | | 19. Total Quantity 55-gal drums | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benson | | Signature | | Month Day Year 8/31/15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature | | Month Day Year 8/31/15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 1/15/15 | |

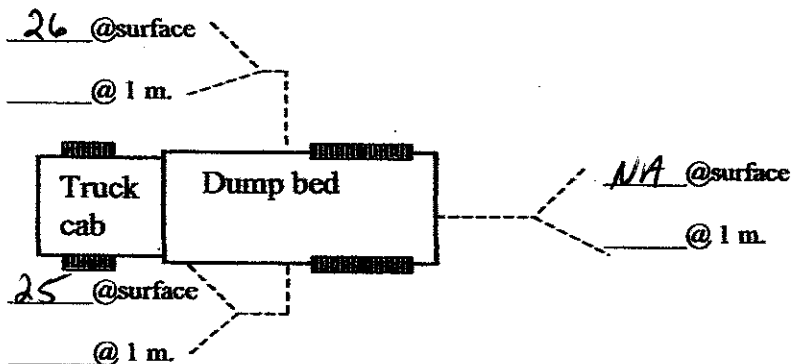
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0829 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Griener Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

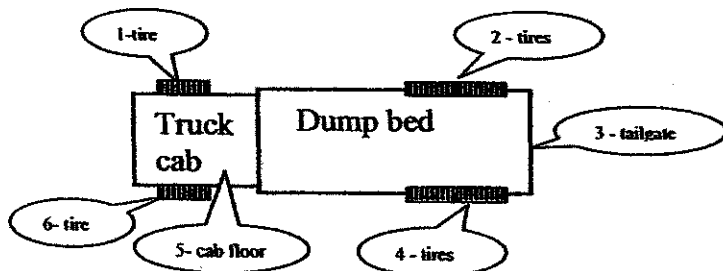
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592017

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|----|---|---------|------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 170 Illinois St Golden, CO 80401 303-773-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-773-3998 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 170 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Asph Seal | | 0019707000 15-11-15 | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>4</td> <td>Y Yards</td> <td>1.00</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | 18 | 4 | Y Yards | 1.00 | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 4 | Y Yards | 1.00 | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Eric Zimmerman | | | | Signature [Signature] Month 8 Day 31 Year 05 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month 08 Day 31 Year 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

515493

FOOTHILLS LANDFILL
 8700 HIGHWAY 73
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 506876 | 0000 |
| WEIGHMASTER | | |
| R0000000 OINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 8:45 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 8:45 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0592017 | | |

Gross Weight 85,140.00 lb
 Tare Weight 36,540.00 lb Inbound -
 Net Weight 48,600.00 lb 24.30 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.30 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

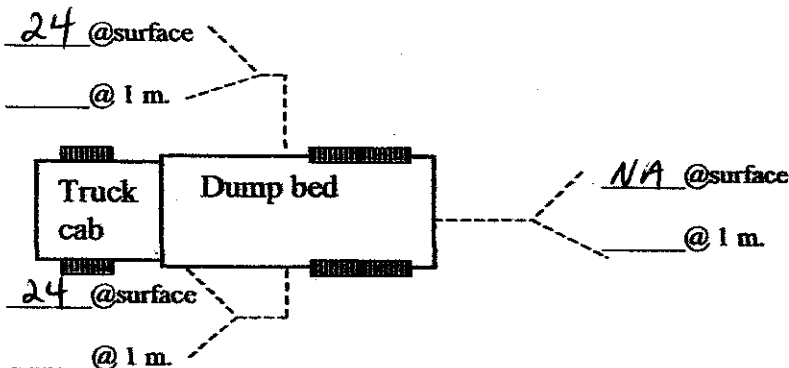


SIGNATURE *[Signature]*

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0835 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Griener Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

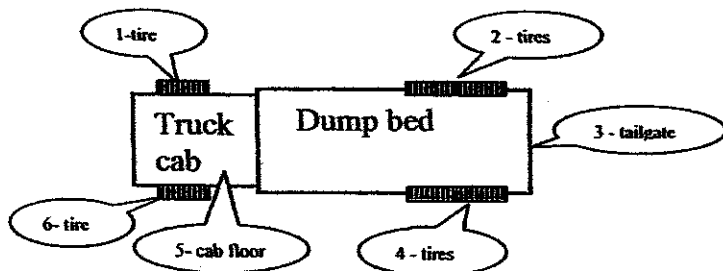
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |

24 513498

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555551 | 0000 |
| WEIGHMASTER | | |
| PC000050 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 8:52 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 8:52 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592006 | | |

Gross Weight 84,520.00 lb
Tare Weight 37,200.00 lb
Net Weight 47,320.00 lb 23.66 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.66 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

Ken



NON-HAZARDOUS WASTE MANIFEST

0592008

24

Please print or type

| | | | | | | |
|--|--|--------------------------|--|---|----------------------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3640 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3640 | | |
| 4. Phone () | | | | 6. Phone () | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1400 W. 12th Ave Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. North Star b. c. d. | | | 17. Allied Waste Approval # and Exp. Date 2010707000 / 6/1/11 | | 18. Containers | |
| | | | | | No. | Type |
| | | | | | 18 | Y |
| | | | | | | |
| | | | | | | |
| 19. Total Quantity Y-Yards | | | 20. Unit Wt/Vol Tons | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | |
| Printed/Typed Name Steve Beckman | | | Signature | | Month Day Year 7/3/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name Ken Shannon | | | Signature | | Month Day Year 08/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year | |

GENERATOR'S COPY

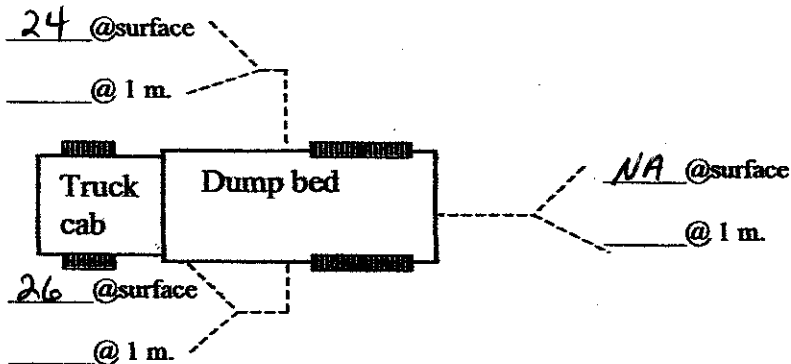
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0840 Surveyed by: CHICKS J Mattson

Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

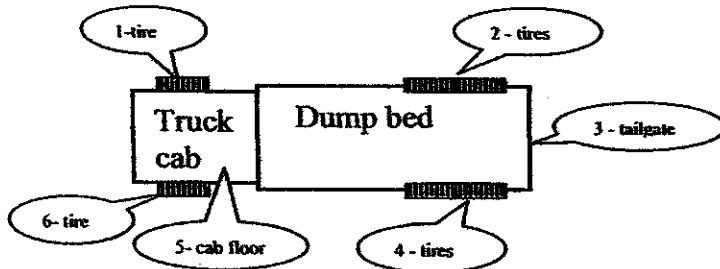
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592021

Please print or type

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Golden, CO 80401 303-273-0000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Dink Golden, CO 80401 303-273-0000 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 W. 1st St. Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date CO LIT 9274003 YES 1/1/15 | | 20. Unit Wt/Vol 1 Load | |
| 16. Waste Shipping Name and Description Harm Soil | | 18. Containers No. Type 18 | | 19. Total Quantity 4 Loads | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkman | | Signature | | Month Day Year 08 31 02 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Robert Colborn Lopez | | Signature | | Month Day Year 08 31 02 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515500

FOOTHILLS LANDFILL
 8900 HIGHWAY 95
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1300 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585553 | 0000 |
| WEIGHMASTER | | |
| AC000080 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 8:58 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 8:58 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592021 | | |

Gross Weight 84,000.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 48,300.00 lb 24.15 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.15 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592021

Please print or type.

| | | | | | | | |
|--|--|--|--|---|------|-------------------------------|--------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1570 Illinois St. Garden, CO 80401 303-273-3638 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3638 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 12000 E. 1st Ave. Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Heavy Soil | | 17. Allied Waste Approval # and Exp. Date 2011/06/01 - 11/15/15 | | 18. Containers | | 19. Total Quantity 7 Yards | 20. Unit Wt/Vol Yards |
| | | | | No. | Type | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Branner | | | | Signature | | Month Day Year 08/31/02 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Michael Colero Lopez | | | | Signature | | Month Day Year 08/31/02 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name G. Hall | | | | Signature | | Month Day Year 08/31/02 | |

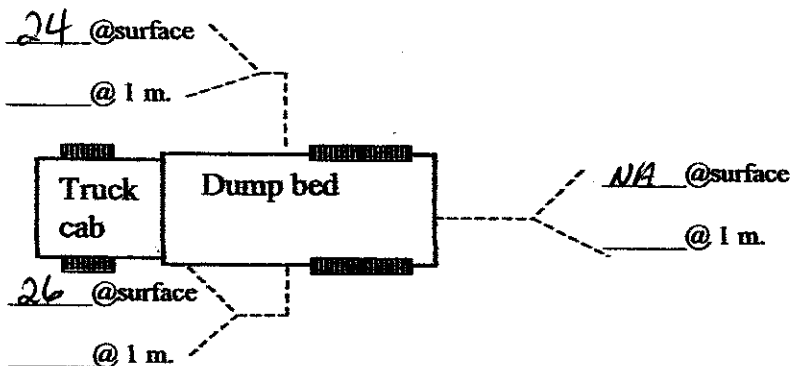
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0848 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Griener Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

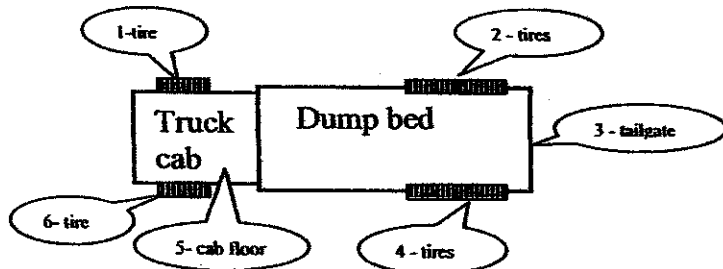
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592018

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 18th St Olathe, CO 64601 303-271-3000 | | | | 5. Generating Location (if different) Canaan School of Lines Hazardous Institute North West of 13th and Olathe Olathe, CO 64601 303-271-3000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 18th St Olathe, CO 64601 303-271-3000 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | CO-17-070902-011915 | | 19. Total Quantity 17 Drums | |
| b. | | | | 20. Unit Wt/Vol 1-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bonaparte | | | | Signature [Signature] Month 8 Day 31 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Hernandez | | | | Signature [Signature] Month 8 Day 31 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

GENERATOR'S COPY

COM000033

515507

FOOTHILLS LANDFILL
 8700 HIGHWAY 95
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585690 | 0000 |
| WEIGHMASTER | | |
| F000080 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 9:06 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 9:06 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592018 | | |

Gross Weight 79,320.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 42,740.00 lb 21.37 TN

Inbound

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



NON-HAZARDOUS WASTE MANIFEST

0592018

96

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 3700 Wilson Rd Gainesville, TX 76701 503-273-0800 | | | | 5. Generating Location (if different) North West of 12th and Green St Gainesville, TX 76701 503-273-0800 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address BAXTER, CO Gainesville, TX 76701 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Sludge | | 2018-02-01 to 01-01-2019 | | 19. Total Quantity 18 Tons | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brumby | | Signature | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Luna | | Signature | | Month Day Year 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

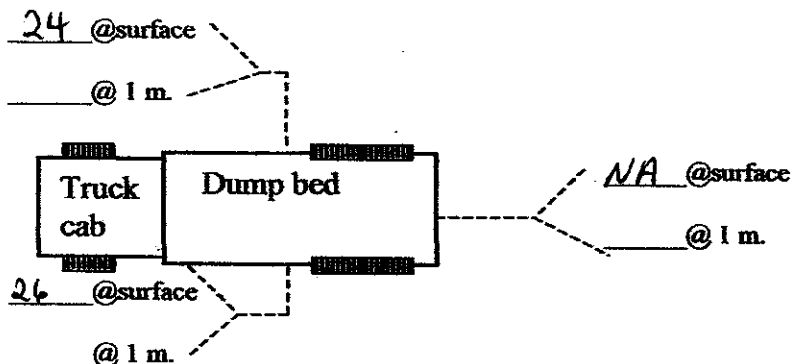
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0852 Surveyed by: CHicks J Mattson
 Trucking Company: Grievre Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

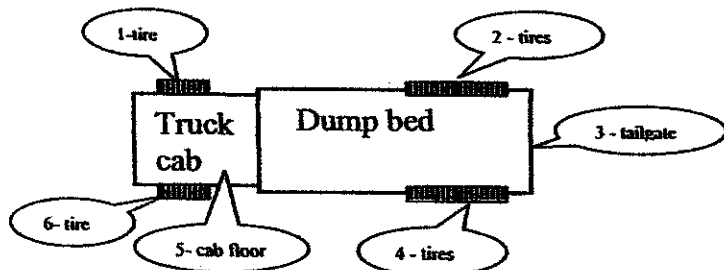
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |

NON-HAZARDOUS WASTE MANIFEST

515306

FOOTHILLS LANDFILL
 8900 HIGHWAY 52
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555891 | 0000 |
| WEIGHMASTER | | |
| R000086 GINA U | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 9:07 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 9:07 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592019 | | |

Gross Weight 75,640.00 lb
 Tare Weight 35,140.00 lb Inbound -
 Net Weight 44,500.00 lb 22.25 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.25 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

NON-HAZARDOUS WASTE MANIFEST

0592019

Please print or type.

| | | | | | | | | | | |
|---|---|--|--|--|--|--|-----------------------------|--|--------------------------------|--|
| GENERATOR | 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| | 3. Generator's Name and Mailing Address EPA ID No.: City, State ZIP: Phone (): | | | | 5. Generating Location (if different) North West of 12th and Birch St. Orion, CO 80401 303-273-3900 | | | | | |
| | 4. Phone () | | | | 6. Phone () | | | | | |
| | 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| | 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| | 13. Designated T/S/D Facility Name and Site Address City, State ZIP: Phone (): | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| TRANSPORTER | 16. Waste Shipping Name and Description a. Solid Soil | | 17. Allied Waste Approval # and Exp. Date Allied Waste # 911075 | | 18. Containers No. Type | | 19. Total Quantity Drums | | 20. Unit Wt/Vol Cubic Yards | |
| | b. | | | | | | | | | |
| | c. | | | | | | | | | |
| | d. | | | | | | | | | |
| | | | | | | | | | | |
| T/S/D FACILITY | 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| | 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Printed/Typed Name Steve Brannen Signature [Signature] Month 8 Day 31 Year 07 | | | | | | | | | |
| | 24. Transporter #1: Acknowledgement of Receipt of Materials Printed/Typed Name [Name] Signature [Signature] Month 8 Day 31 Year 07 | | | | | | | | | |
| | 25. Transporter #2: Acknowledgement of Receipt of Materials Printed/Typed Name [Name] Signature [Signature] Month 8 Day 31 Year 07 | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) Printed/Typed Name [Name] Signature [Signature] Month 8 Day 31 Year 07 | | | | | | | | | | |

COM000033

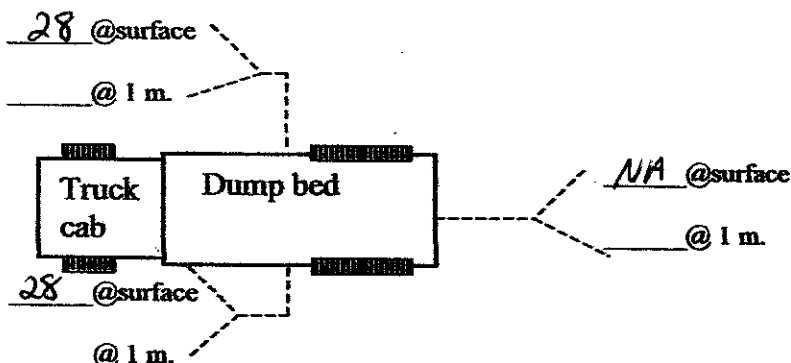
TRANSPORTER #1

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0858 Surveyed by: Chicks J Mattson

Trucking Company: Griene Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

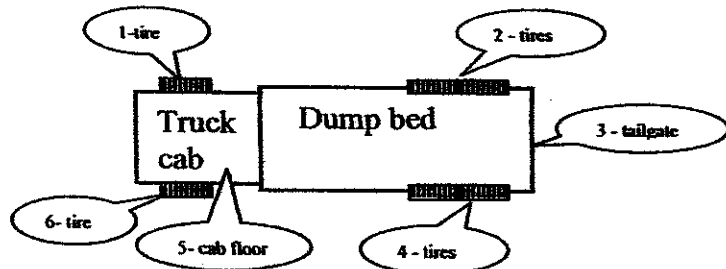
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592020

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Golden, CO 80401 303-273-4638 | | | | 5. Generating Location (if different from 3) School of Mines Research Institute North West of 12th and Iarches Golden, CO 80401 303-273-4638 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Greene Trucking W.L. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St. Golden, CO 80401 303-273-4638 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Normal Soil | | 17-187-070906-7611815 | | 14 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beaton | | | | Signature [Signature] | |
| | | | | Month Day Year 8 31 08 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 8 31 08 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

515510

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80503
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555893 | 0000 |
| WEIGHMASTER | | |
| PC000050 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:13 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 9:13 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0590050 | | |

Gross Weight 85,940.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 48,240.00 lb 24.12 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.12 | TN | SUB-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592020

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Bypass St Canton, MO 64601 303-273-7446 | | | | 5. Generating Location (if different) 1501 Bypass St Canton, MO 64601 303-273-7446 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Green Bay Area H-2- | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Columbia, MO 303-273-7446 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Iron Sulfide b. c. d. | | 17. Allied Waste Approval # and Exp. Date 1501 Bypass St Canton, MO 64601 303-273-7446 | | 18. Containers No. Type 16 | |
| | | | | 19. Total Quantity 7 yards | |
| | | | | 20. Unit Wt/Vol Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature [Signature] | | Month Day Year 2 3 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Beckman | | Signature [Signature] | | Month Day Year 2 3 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

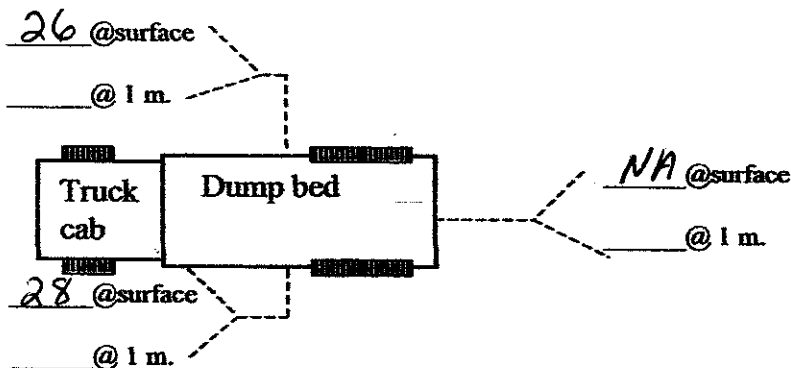
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0903 Surveyed by: CHicks J Mattson

Trucking Company: Griev Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

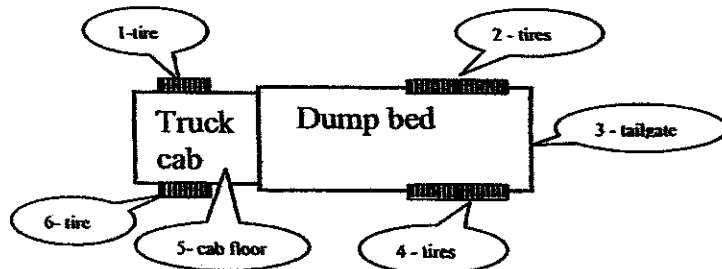
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592007

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--|---|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-8000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 10th and Birch St Golden, CO 80401 303-273-8000 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 ACCOUNT # 00000000000000000000 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date 00000000000000000000 | | 18. Containers | | 19. Total Quantity 0.000000000000000000 | 20. Unit Wt/Vol 0.000000000000000000 | |
| | | | | No. | Type | | | |
| a. North Star | | | | | | Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brennan | | | | Signature | | Month 6 | Day 31 | Year 94 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 6 | Day 31 | Year 94 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

515515

FOOTHILL LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YS11915

| | | | | | |
|----------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 588377 | | 0030 | |
| WEIGHMASTER | | | | | |
| R200080 GINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 31 August 2007 | | | 9:22 AM | | |
| DATE OUT | | | TIME OUT | | |
| 31 August 2007 | | | 9:55 AM | | |
| VEHICLE | | | ROLL OFF | | |
| YS11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| | | | | | |

Gross Weight 81,160.00 lb
Tare Weight 36,990.00 lb
Net Weight 44,150.00 lb 22.09 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.09 | TN | 80-CONT SOIL | | | | |
| 1.00 | LI | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592007

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1400 Nitrate St. Garden, CO 80441 303-273-3568 | | | | 5. Generating Location (if different) Garden, CO 80441 303-273-3568 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Garden, CO | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Normal Soil | | 051107-973008-1211215 | | 1000 lbs | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | | | Signature [Signature] Month 8 Day 31 Year 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 31 Year 04 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 31 Year 04 | |

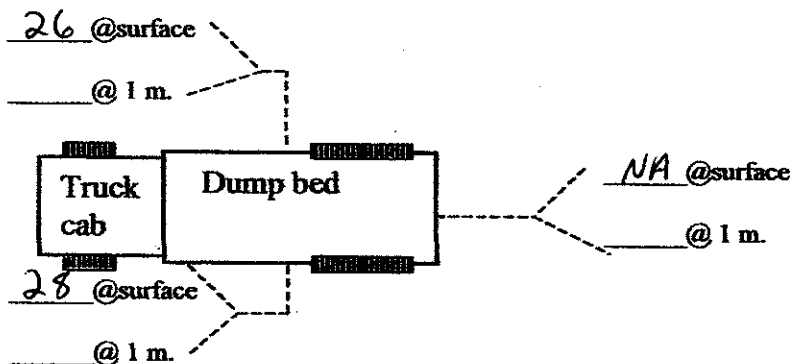
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0910 Surveyed by: C. Hicks J. Matson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

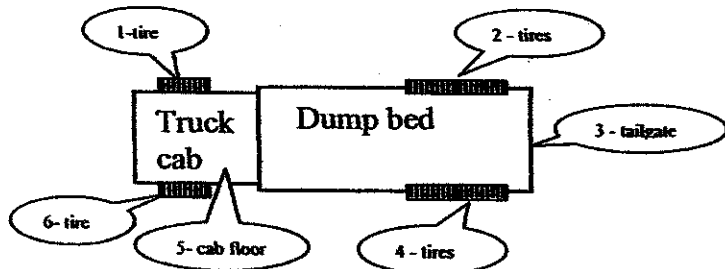
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592008

961

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3336 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Lockheed Golden, CO 80401 303-273-3938 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado State 3300 N. Hwy 105 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Sol | | 100 167 070008 Y511915 | | 7 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 5/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 5/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 72
 GOLDEN
 CO
 80606
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80601

Contract# Y511915

510302

| | | |
|----------------------------|-------------------|---------------------|
| SITE 01 | TICKET 7245904 | GRID 0000 |
| WEIGHMASTER | | |
| 5000060 DINA C | | |
| DATE IN 31 August 2007 | | TIME IN 7:25 am |
| DATE OUT 31 August 2007 | | TIME OUT 7:29 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE | | ORIGIN |

Gross Weight 32,140.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 47,740.00 lb 23.87 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.87 | TN | SUB-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0592008

961

Please print or type.

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1700 W. 1st St. Denver, CO 80202 303-733-1000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 17th and 1st St Denver, CO 80202 303-733-1000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 1700 W. 1st St Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Non-Hazardous b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00107 030615 11/15/15 | | 18. Containers No. Type 18 Yards | |
| | | | | 19. Total Quantity Yards | |
| | | | | 20. Unit Wt/Vol Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Reinman | | Signature | | Month Day Year 5/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Reinman | | Signature | | Month Day Year 5/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

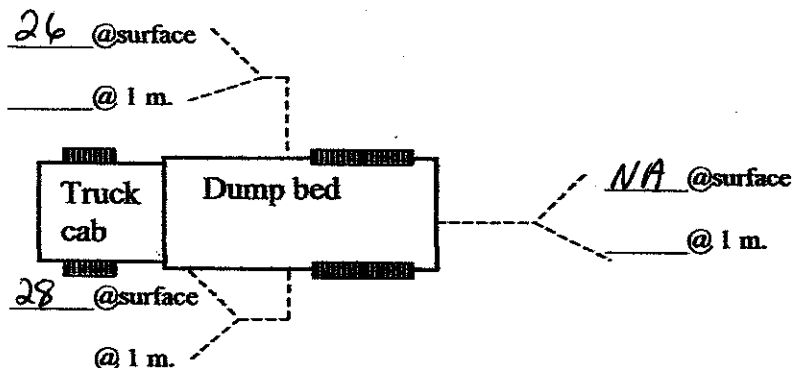
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0915 Surveyed by: CHICKS J Matson
 Trucking Company: Griev Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

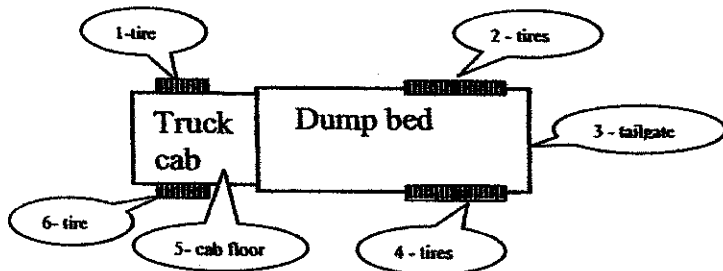
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | X 0 cpm | 2 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592011

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Evans St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 (Golden, CO 80401 is the same as the School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Harm Soil | | CO L873/0008 7/31/95 | | Y-Tanks | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 31 94 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Scott H. [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

515525

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555705 | 0000 |
| WEIGHMASTER | | |
| RC000050 BINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 7:35 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 9:35 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592011 | | |

Gross Weight 20,300.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 44,660.00 lb 22.33 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.33 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature] 8-31-07



NON-HAZARDOUS WASTE MANIFEST

0592011

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address: 1800 Illinois St Golden, CO 80401 303-273-2942 | | | | 5. Generating Location (if different): School of Mines Research Institute North West of 12th and Franklin Golden, CO 80401 303-273-2942 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address: 2400 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | 001521/0900/1811/05 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Containers | | | | | |
| 20. Unit Wt/Vol 18 Containers | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benson | | Signature | | Month Day Year 8/31/05 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sally Varsoy | | Signature | | Month Day Year 9/1/05 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name John Smith | | Signature | | Month Day Year 9/1/05 | |

TRANSPORTER #1

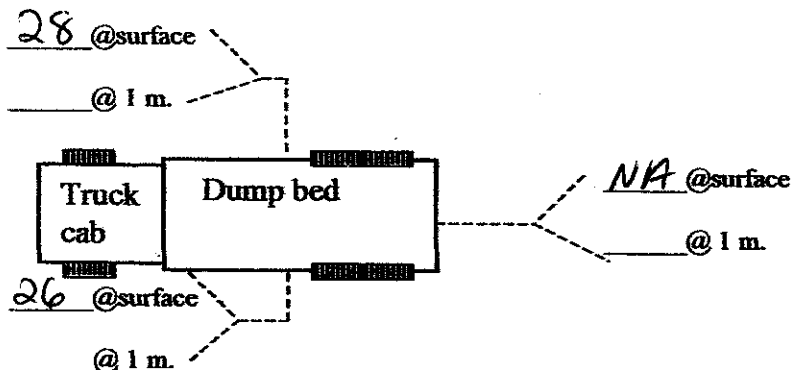
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0926 Surveyed by: CHicks J Mattson

Trucking Company: Griev Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

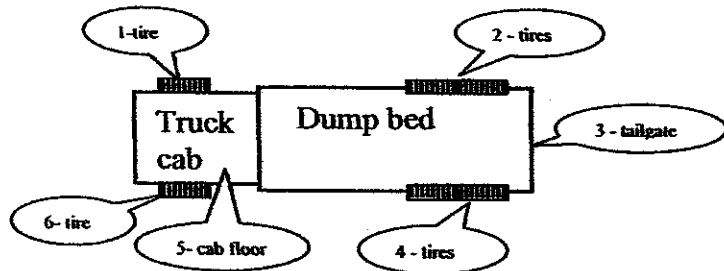
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592009

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|-----------------------|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 North St Garden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) School of Mass Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3000 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 North St Garden, CO 80401 (Name of T/S/D Facility and Address) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| | | | | No. | Type | | |
| a. None | | CO 1500 NORTH ST 1500 | | 18 | ✓ | Y-Yards | T-Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Erickson | | | | Signature | | Month Day Year 6/3/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature | | Month Day Year 6/3/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515531

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555915 | 0000 |
| WEIGHMASTER | | |
| ACC0080 BINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 9:45 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 9:45 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592009 | | |

Gross Weight 89,460.00 lb
 Tare Weight 34,260.00 lb Inbound -
 Net Weight 47,200.00 lb 24.60 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.60 | TN | SW-COMT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

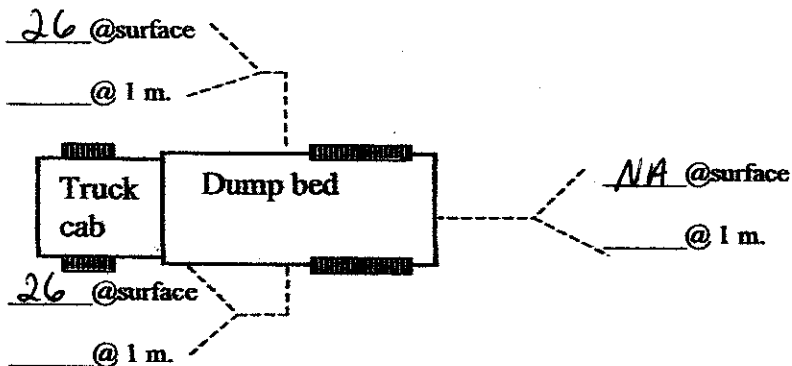
SIGNATURE

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0932 Surveyed by: Chicks J. Mattson

Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

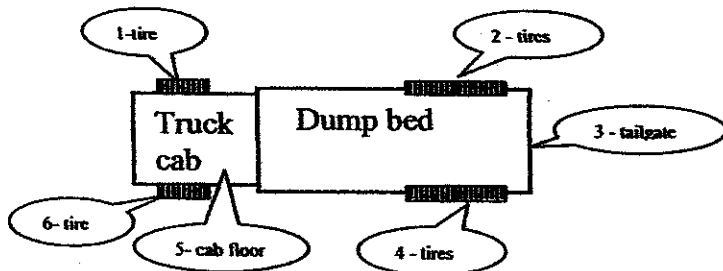
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X00cpm | β 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592010

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1700 Wilson St Golden, CO 80401 303-273-1060 | | | 5. Generating Location (if different from School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1060 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address SOUTH, 20 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Harm Soil | | CO 107 07/00/01 1511515 | | 10 Yards 10 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Beckman | | [Signature] | | 8 3 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mark Phelan | | [Signature] | | 8 3 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

5155-2

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806606
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-----------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 585925 | 0000 |
| WEIGHMASTER | | |
| PC000060 GIMA C | | |
| DATE IN | | TIME IN |
| 31 August 2007 | | 9:59 am |
| DATE OUT | | TIME OUT |
| 31 August 2007 | | 9:59 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0592010 | | |

Gross Weight 27,260.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 52,150.00 lb 26.08 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 26.08 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592010

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1.3100 N. St Garden, CO 80401 303-473-0000 | | | | 5. Generating Location (if different) School of Mines Research Institute N. on West of 12th and Birch St Garden, CO 80401 303-473-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Garden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Hazardous | | 1.0000000000000000 | | 18 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 18 | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkley | | Signature [Signature] | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature [Signature] | | Month Day Year 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8/31/07 | |

TRANSPORTER #1

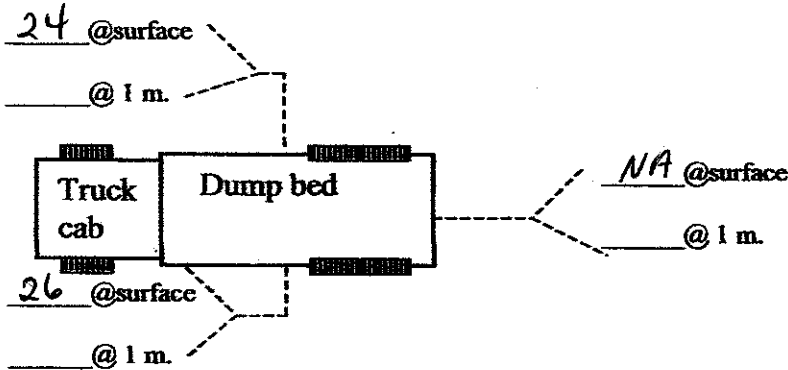
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0938 Surveyed by: Chicks J Mattson

Trucking Company: Grievre Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

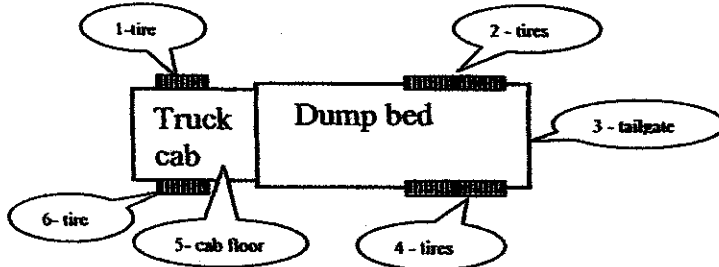
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | X 0 cpm | 1316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550991

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1530 Illinois St Golden, CO 80401 303-273-3999 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3999 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado Lead Inc 4549 Hwy 30 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Name Soil | | CO L57 070308 YS11915 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Buchanan | | Signature | | Month Day Year 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515543

FOOTHILLS LANDFILL
 8906 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588926 | 0000 |
| WEIGHMASTER | | |
| PC00060 BINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 10:00 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 10:00 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0850791 | | |

Gross Weight 34,640.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 48,100.00 lb 24.05 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550991

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-4586 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Ditch St Golden, CO 80401 303-273-0990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Control 1900 Hwy 26 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Non Sol | | CO 157-070X08 04/11/95 | | 18 Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

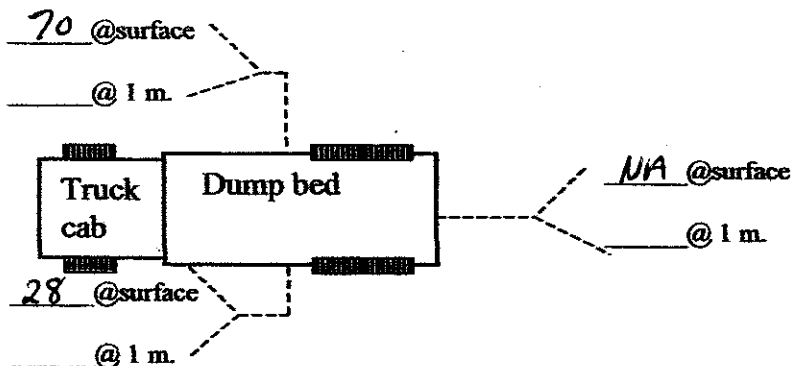
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0944 Surveyed by: Chicks J Mattson

Trucking Company: Griene Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

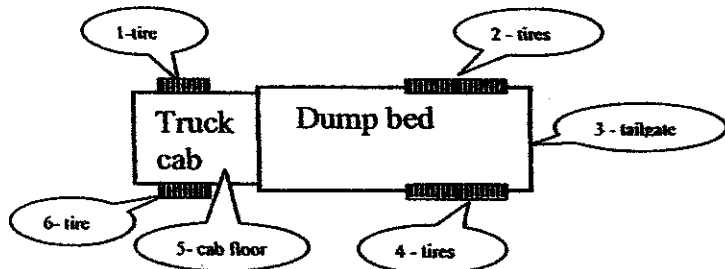
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |

FOOTHILL LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80401
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

24 5155 W

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 583727 | 0000 |
| WEIGHMASTER | | |
| R000060 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 10:01 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 10:01 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0550992 | | |

Gross Weight 85,220.00 lb
Tare Weight 37,200.00 lb
Net Weight 48,020.00 lb 24.01 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.01 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Handwritten signature: Keri



NON-HAZARDOUS WASTE MANIFEST

0550992

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Black St. Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Black St. Golden, CO 80401 ACCOUNT # 1500 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Heavy Soil | | 17. Allied Waste Approval # and Exp. Date CO L87 070906 7511915 | | 18. Containers No. Type 18 Y | |
| b. | | | | 19. Total Quantity Cubic Yards 7 Yards | |
| c. | | | | 20. Unit Wt/Vol Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bink | | | | Signature [Signature] Month Day Year 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name K. Shannon | | | | Signature [Signature] Month Day Year 08 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

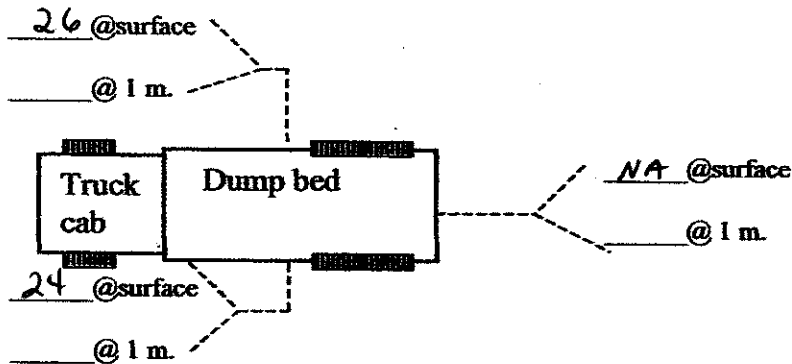
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0950 Surveyed by: CHicks J Mattson

Trucking Company: Griev Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

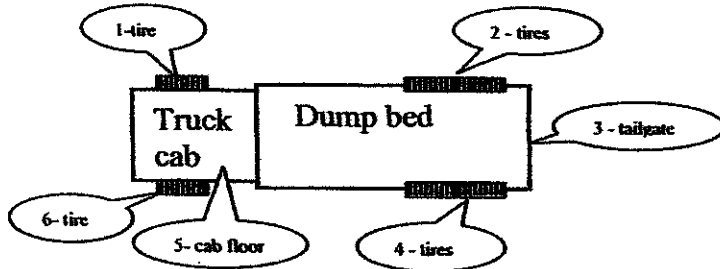
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550933

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprint Landfill 2470 Hwy 90 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Normal Soil | | CO 167 070001 Y511515 | | 18 Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bishman | | Signature | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Daniel Colares Lopez | | Signature | | Month Day Year 08/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515562

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF KINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 568732 | 0000 |
| WEIGHMASTER | | |
| REC000000 31NA 0 | | |
| DATE IN | | TIME IN |
| 31 August 2007 | | 10:09 am |
| DATE OUT | | TIME OUT |
| 31 August 2007 | | 10:10 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0550993 | | |

OS Gross Weight 24,140.00 lb
 Tare Weight 25,700.00 lb
 Net Weight 48,440.00 lb 24.22 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.22 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550993

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado Landfill 1500 Hwy 90 Golden, CO 80401 (Colorado State Mine) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Harm Sol | | 00187 070500 511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Patricia Olvera Lopez | | | | 09/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

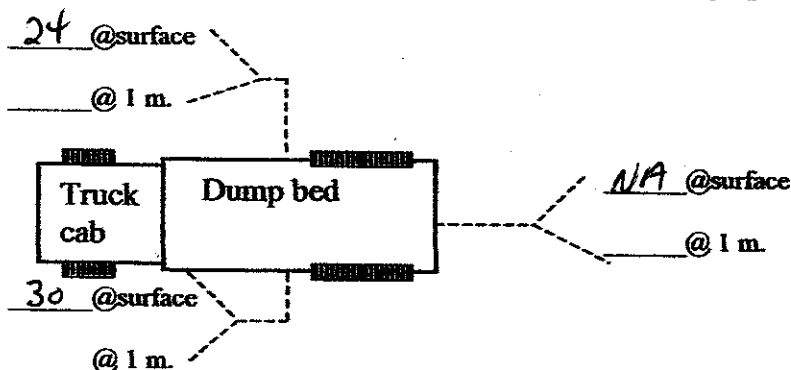
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 0956 Surveyed by: CHICKS J Mattson

Trucking Company: Gnere Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

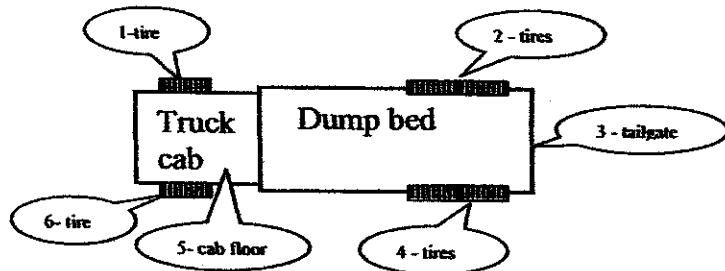
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550994

96

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Harm Soil | | CO 187070308 13-10-15 | | Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Bishara | | [Signature] | | 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YB11913

515583

| | | |
|----------------------------|----------------------|--------------|
| SITE 01 | TICKET 52878E | GRID 0000 |
| WEIGHMASTER | | |
| 000080 GINA C | | |
| DATE IN 31 August 2007 | TIME IN 04:14 am | |
| DATE OUT 31 August 2007 | TIME OUT 10:15 am | |
| VEHICLE YB11913 | ROLL OFF | |
| REFERENCE 0550994 | ORIGIN | |

03 Gross Weight 81,540.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 44,960.00 lb 22.48 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.48 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550394

Please print or type

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1670 Platteau St Golden, CO 80401 303-273-4998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-4998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address USX Corp Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO 167 070600 7511015 | | 18. Containers No. Type 18 1-Yards | |
| b. | | | | 19. Total Quantity D. Drums G. Gallons | |
| c. | | | | 20. Unit Wt/Vol Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name L. M. H. H. H. | | Signature | | Month Day Year 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8 31 07 | |

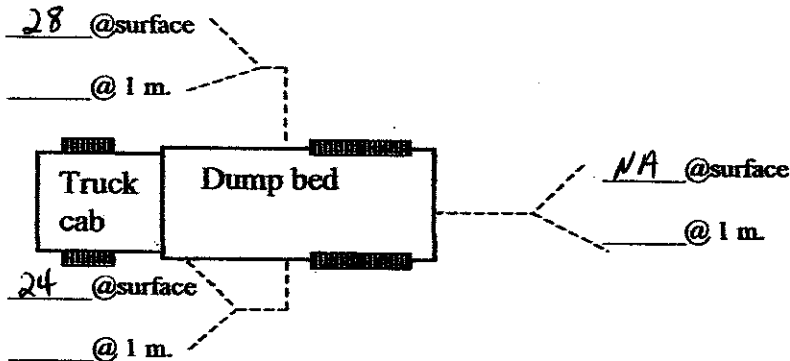
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1002 Surveyed by: CHICKS J Matson
 Trucking Company: Griewe Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

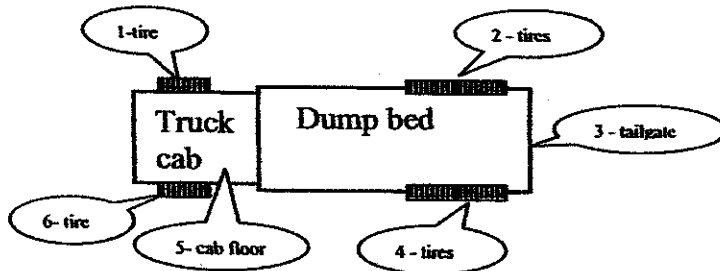
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | X 0 cpm | 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550995

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Division St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene Recycling #12- | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Division St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO 151070000-511015 | | 19. Total Quantity 0.000000 | |
| b. | | | | 20. Unit Wt/Vol Y-Yards | |
| c. | | | | T-Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bratton | | Signature [Signature] | | Month Day Year 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

515555 12

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 538909 | 0000 |
| WEIGHMASTER | | |
| R000060 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 0:15 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 10:30 am | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 0520795 | | |

CG Gross Weight 87,120.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 49,420.00 lb 24.71 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.71 | TN | SW-CNTY SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550995

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Green Rock #12- | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontline Landfill 5800 Hwy 93 Golden, CO ACCOUNT # 93-0001 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Normal Soil | | CO 06707008-151915 | | 19. Total Quantity 0-Drums 0-Drums 18-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brubaker | | Signature | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name S. Brubaker | | Signature | | Month Day Year 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8/31/07 | |

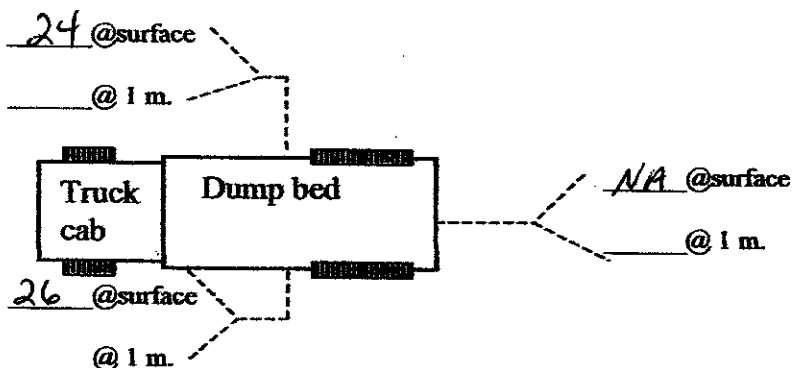
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 1009 Surveyed by: Chicks J Mattson
 Trucking Company: Griev Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

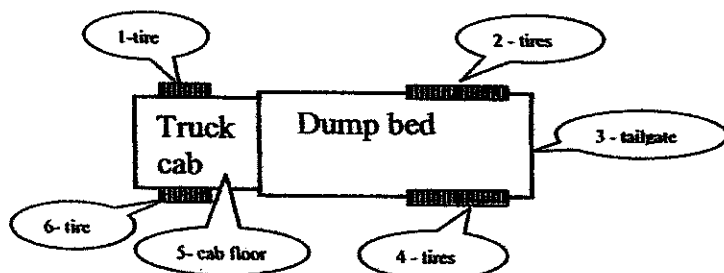
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550996

3001

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3906 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 (Mines School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Waste Soil | | CO 087 070500 5/1/95 | | | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benken | | | | Signature | | Month 8 | Day 31 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515573

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 535943 | 0000 |
| WEIGHMASTER | | |
| R000080 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 10:26 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 10:26 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0550996 | | |

Gross Weight 80,600.00 lb

Tare Weight 35,140.00 lb

Inbound -

Net Weight 45,460.00 lb 22.73 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.73 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550996

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Ogden, UT 84401 303-273-3900 | | | | 5. Generating Location (if different) Utah School of Mines Research Institute North West of 17th and Birch St Ogden, UT 84401 303-273-3900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Utah School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Burn Sol | | 20167 07/03/09 1511815 | | 19. Total Quantity 19 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] Month 8 Day 31 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

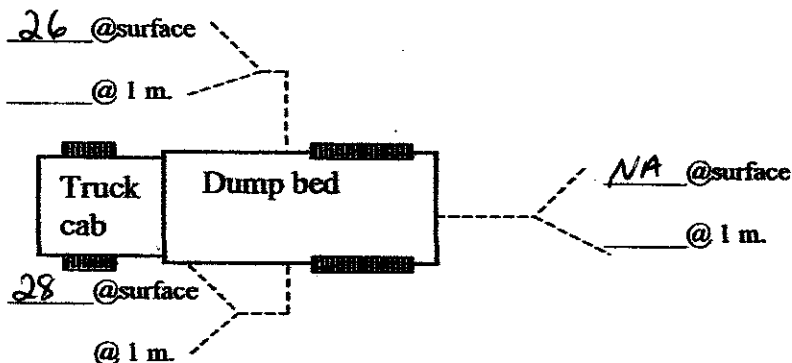
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1014 Surveyed by: CHICKS J Mattson
 Trucking Company: Grievre Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

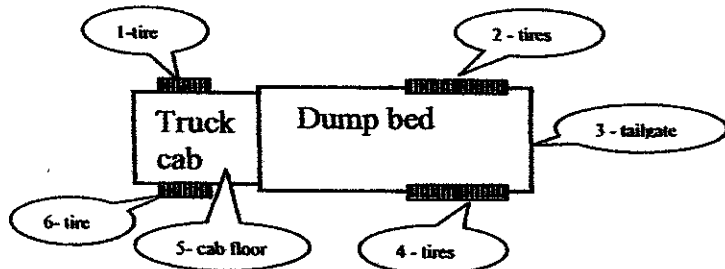
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550997

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|--|--|----------|-------------|
| 3. Generator Name and Mailing Address Colorado School of Mines Research Institute 1301 Illick St Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1600 Mary St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>0.0 tons</td> <td>0.0 Gallons</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 0.0 tons | 0.0 Gallons |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | |
| | | 0.0 tons | 0.0 Gallons | | | | | | | | | | |
| a. Normal Soil | | CO L37 070000 Y511015 | | | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| Steve Brubaker | | | | 8/31/07 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| Alvin [unclear] | | | | 8/2/07 | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 508748 | | 0000 | |
| WEIGHMASTER | | | | | |
| R000080 GINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 31 August 2007 | | | 10:31 am | | |
| DATE OUT | | | TIME OUT | | |
| 31 August 2007 | | | 10:31 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0530997 | | | | | |

Gross Weight 82,700.00 lb
 Tare Weight 36,960.00 lb
 Net Weight 45,720.00 lb 22.86 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.86 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0550997

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1570 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Broad St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Postville Landfill 1500 Hwy 30 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 20. Unit Wt/Vol | |
| a. Norm Soil | | CO 157 (70000) 1511015 | | No. Type | |
| b. | | | | 16 Y-Yards 1-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve B... | | | | 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| ... | | | | 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

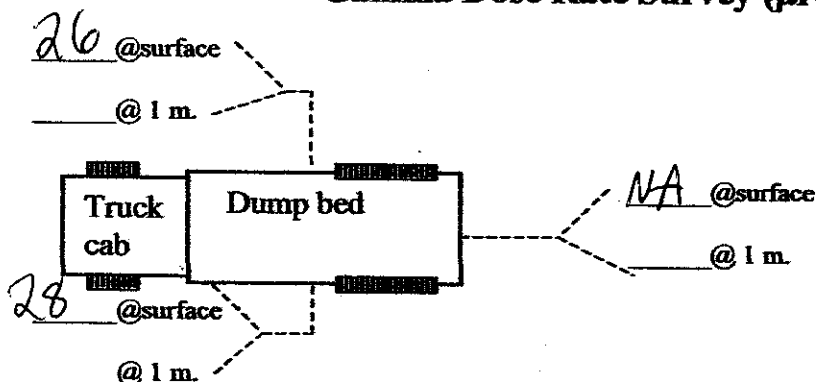
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1022 Surveyed by: Citichs J Mattson
 Trucking Company: Griev Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

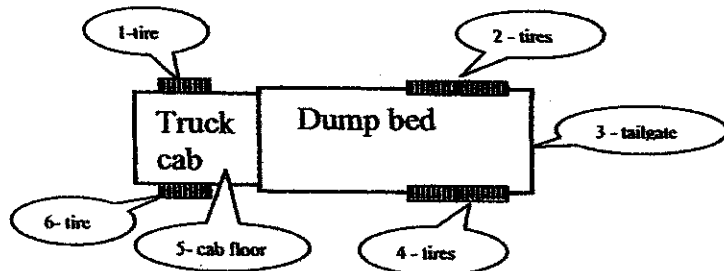
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

961
0550998

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address: 1000 Birch St Golden, CO 80401 303-273-3666 | | | | 5. Generating Location (if different): Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3666 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address: 1000 Birch St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Iron Soil | | 00187070000 10/19/16 | | 19. Total Quantity 0-Drums 0-Containers | |
| b. | | | | 20. Unit Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Brinkman | | | | Signature: [Signature] Month: 8 Day: 31 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: 8 Day: 31 Year: 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

Contract: Y011923

| | | | | | |
|----------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 000950 | | 0000 | |
| WEIGHMASTER | | | | | |
| 000050 GINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 31 August 2007 | | | 10:39 am | | |
| DATE OUT | | | TIME OUT | | |
| 31 August 2007 | | | 10:39 am | | |
| VEHICLE | | | ROLL OFF | | |
| YEL1215 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0050998 | | | | | |

| | | | |
|--------------|-----------|----|----------|
| Gross Weight | 80,340.00 | Lb | |
| Tare Weight | 34,400.00 | Lb | |
| Net Weight | 45,940.00 | Lb | 22.98 TN |

INDEX

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.98 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0550998

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|--|--|-----|------|--|--|
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Box 85 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td></td> <td></td> </tr> </table> | | No. | Type | | |
| No. | Type | | | | | | | | |
| | | | | | | | | | |
| a. Norm Soil | | CO 067 070908 1511215 | | 19. Total Quantity 0 Drums 0 Cans | | | | | |
| b. | | | | 20. Unit Wt/Vol Y-Yards T-Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 8/31/07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Marianne Rodriguez | | Signature | | Month Day Year 8/31/07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name Paul | | Signature | | Month Day Year 8/31/07 | | | | | |

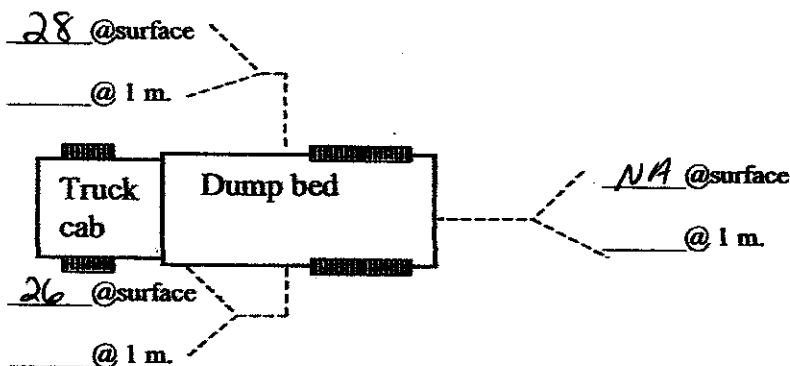
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1027 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Grieve Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

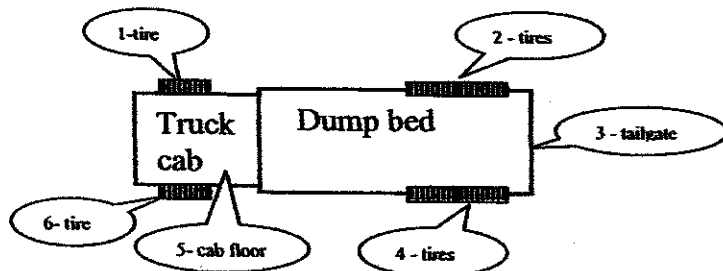
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



NON-HAZARDOUS WASTE MANIFEST

0551000

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Birch St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Birch St Golden, CO 80401 School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | 10167 070008 10/10/15 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santog Versas | | | | Signature [Signature] | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

515587

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588957 | 0000 |
| WEIGHMASTER | | |
| PC00080 GINA C | | |
| DATE IN | TIME IN | |
| 31 August 2007 | 10:48 am | |
| DATE OUT | TIME OUT | |
| 31 August 2007 | 10:48 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0551000 | | |

Gross Weight 78,220.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 42,580.00 lb 21.29 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.29 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

8-31-07



NON-HAZARDOUS WASTE MANIFEST

0551000

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Golden, CO 80401 303-273-0908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1501 Illinois St Golden, CO 80401 ACD UNIT # 1001 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non Soil | | CO L67070001511915 | | 19. Total Quantity 16 Drums | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature <i>[Signature]</i> | | Month Day Year 8/31/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santana Vargas | | Signature <i>[Signature]</i> | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name D. [Signature] | | Signature <i>[Signature]</i> | | Month Day Year 8/31/07 | |

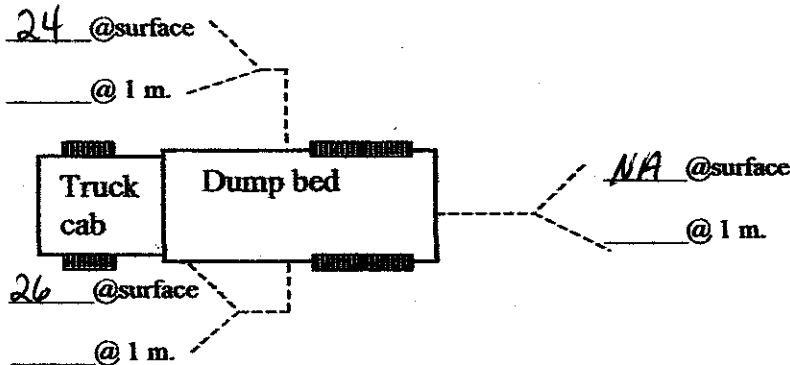
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1044 Surveyed by: C Hicks J Mattson
 Trucking Company: Griener Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

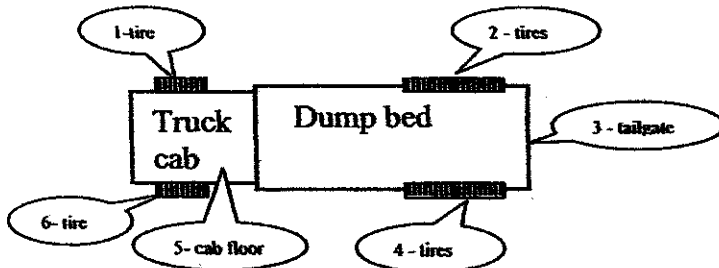
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 10 cpm | 13.9 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 616.6 dpm |



23

NON-HAZARDOUS WASTE MANIFEST

0550999

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 School St Golden, CO 80401 303-273-3042 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Ninth St Golden, CO 80401 303-273-3042 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 School St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Normal Soil | | 00187400081511015 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve D. [Signature] | | [Signature] | | 8/21/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| MARK MELAN | | [Signature] | | 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|-----------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 558765 | | 0000 | |
| WEIGHMASTER | | | | | |
| PC000060 BINA C | | | | | |
| DATE IN | | | TIME IN | | |
| 31 August 2007 | | | 11:01 am | | |
| DATE OUT | | | TIME OUT | | |
| 31 August 2007 | | | 11:01 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0550799 | | | | | |

OG Gross Weight 86,040.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 50,940.00 lb 25.47 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 25.47 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



23

NON-HAZARDOUS WASTE MANIFEST

0550999

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3968 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3968 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Tochob's Landfill 2890 Hwy 90 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hazardous | | CO L87070902 Y511915 | | 19. Total Quantity 1 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Melan | | Signature | | Month Day Year 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

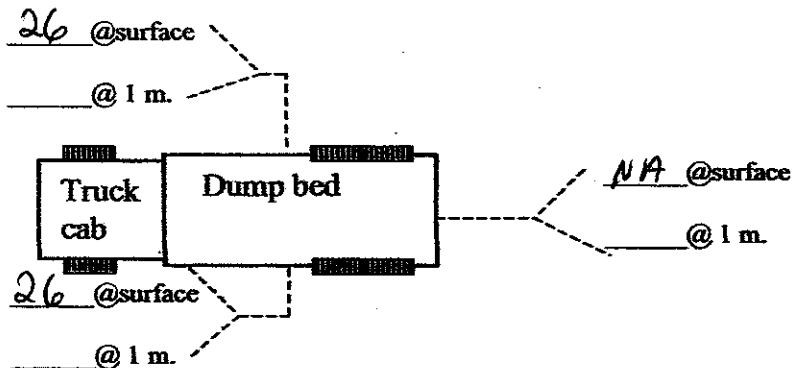
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/31/07 1051 Surveyed by: CHICKS J Mattson
 Trucking Company: Grievre Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

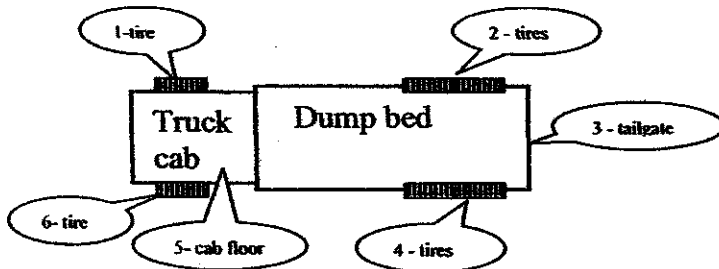
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | X 0 cpm | β 316 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 616.6 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550989

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|-------------------------------|-------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3906 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Frontalis Facility 3000 Hwy 93 Golden, CO ACCOUNT # 94563 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Gallons | 20. Unit Wt/Vol Gallons | |
| | | | | No. | Type | | | |
| a. Norm Soil | | CO 167 07/908 Y511316 | | 18 | 4 | Y-Yards | 4-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Carolin Hicks | | | | Signature Carolin Hicks | | Month 8 | Day 21 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature | | Month 08 | Day 31 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

525602

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-----------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 332772 | 0000 |
| WEIGHMASTER | | |
| SC000080 GINA C | | |
| DATE IN | | TIME IN |
| 31 August 2007 | | 11:09 am |
| DATE OUT | | TIME OUT |
| 31 August 2007 | | 11:09 am |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 0350989 | | |

Gross Weight 64,740.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 48,200.00 lb 24.10 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.10 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|-------------|---------|---------|----------|----------------------------|
| Ruiz 95 | 8/30/07 | 1208 | 1214 | 18 cy |
| Marquez 961 | | 1222 | 1232 | |
| JDO1 | | 1222 | 1238 | |
| Griever 8 | | 1238 | 1245 | |
| Griever 23 | | 1245 | 1252 | |
| Murray 461 | | 1250 | 1258 | |
| Griever 24 | | 1258 | 1308 | |
| Marquez 96 | | 1308 | 1315 | |
| JDO4 | | 1314 | 1322 | |
| Collazo 13 | | 1334 | 1340 | |
| Ruiz 95 | | 1340 | 1348 | |
| Griever 8 | | 1348 | 1357 | |
| Griever 23 | | 1357 | 1402 | |
| Marquez 961 | | 1402 | 1410 | |
| JDO1 | | 1408 | 1416 | |
| Murray 461 | | 1415 | 1424 | |
| Griever 24 | | 1424 | 1430 | |
| Griever 12 | | 1430 | 1438 | |
| Marquez 96 | | 1438 | 1443 | |
| JDO4 | ✓ | 1443 | 1450 | ✓ |

80.2
81.4
80.5
82.1
85.6
81.4
84.5
80.2
75.5
83.9
78.8

Truck Departure Record Form

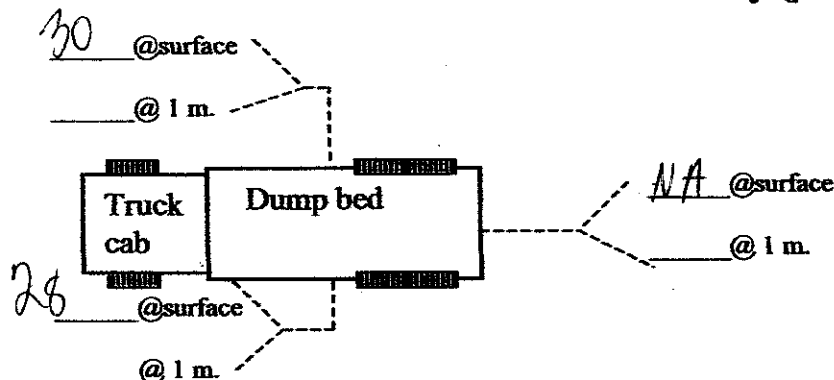
| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|-------------------------|---------|---------|----------|----------------------------|
| Calla20 13 | 8/30/07 | 1450 | 1459 | 18 cy |
| Ruiz 95 | 8/30/07 | 1458 | 1503 | 18 cy |
| Greene 8 | 8/30/07 | 1503 | 1511 | ↓ |
| Greene 24 23 | 8/30/07 | 1510 | 1517 | |
| Marquez 961 | 8/30/07 | 1517 | 1527 | |
| JO 01 | 8/30/07 | 1527 | 1535 | |
| Murray 461 | 8/30/07 | 1535 | 1542 | |
| Marquez 96 | 8/30/07 | 1548 | 1555 | |
| | | | | ↓ |
| | | | | |
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| | | | | |

68 trucks

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1214 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

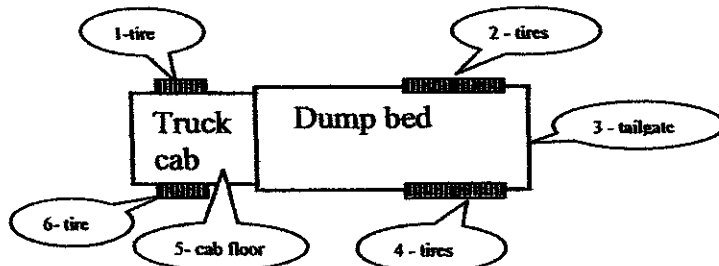
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643470

Please print or type.

| | | | | | | | | | | | | | |
|--|--|--|--|----------------------------|--|--------------------|--|-----------------|--|-----------|--|------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Colorado, CO 80401 303-273-0604 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Sheridan St Golden, CO 80401 303-273-0604 | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1000 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description a. Iron Saw b. c. d. | | 17. Allied Waste Approval # and Exp. Date 001677300 04/95 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | | | |
| | | | | No. Type | | Drums | | Yards | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve Benson | | | | Signature [Signature] | | | | Month 2 | | Day 20 | | Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | | | Month 2 | | Day 20 | | Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |

GENERATOR'S COPY

CSM000033

515250

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 568656 | GRID 0000 |
| WEIGHMASTER 2500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 12:47 pm |
| DATE OUT 30 August 2007 | | TIME OUT 12:47 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643470 | ORIGIN | |

00 Gross Weight 80,220.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 43,240.00 lb 21.62 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.62 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643470

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1300 Wilkes St Golden, CO 80401 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Dickson Golden, CO 80401 303-273-3098 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1300 Wilkes St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | C0151200001-5-1915 | | 19. Total Quantity Y-Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. Brown | | Signature | | Month Day Year 8 20 17 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name M. J. Brown | | Signature | | Month Day Year 8 20 17 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

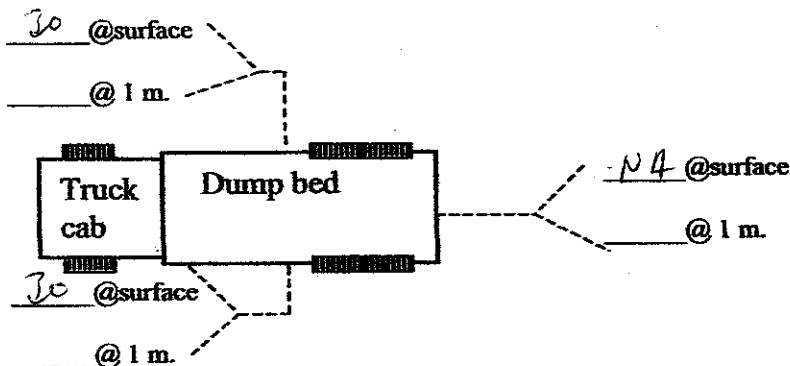
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1232 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

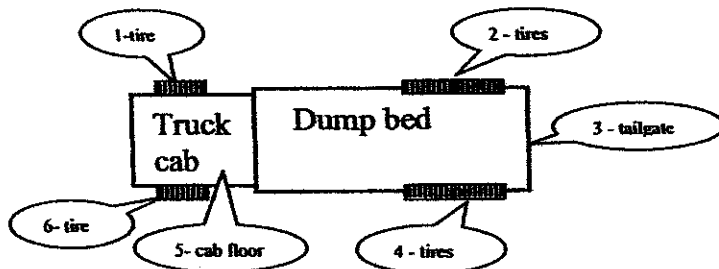
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643466

Please print or type:

| | | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|------|--|--------------------------------------|----------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Garden, CO 80401 303-273-3330 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3330 | | | | | | |
| | | | | | | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Frontier Landfill 1000 Main St Garden, CO ACCOUNT # 00000000000000000000 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Heavy Soil | | | 17. Allied Waste Approval # and Exp. Date CO 037-070000-511515 | | 18. Containers | | 19. Total Quantity 0 Drums 1-Yards | 20. Unit Wt/Vol 0-Drums 1-Tons | | |
| | | | | | No. | Type | | | | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Zimmerman | | | | Signature | | | | Month 2 | Day 2 | Year 99 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature | | | | Month 2 | Day 2 | Year 99 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM00033

515276

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 558668 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 1:12 pm |
| DATE OUT 30 August 2007 | | TIME OUT 1:12 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643466 | ORIGIN | |

Gross Weight 81,560.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 47,160.00 lb 23.58 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.58 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643466

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 10th and Birch St Golden, CO 80401 303-271-3995 | |
| 4. Phone () 303-271-3995 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Facility Landfill 5000 Hwy 90 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Metal Slat | | 07107070918 Y511915 | | 19. Total Quantity 10 Drums 10 Tons | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: <i>SICIL B. HARRIS</i> | | | | Signature: <i>[Signature]</i> | |
| | | | | Month: 6 Day: 27 Year: 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: <i>[Name]</i> | | | | Signature: <i>[Signature]</i> | |
| | | | | Month: 6 Day: 27 Year: 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: | |
| | | | | Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: | |
| | | | | Month: Day: Year: | |

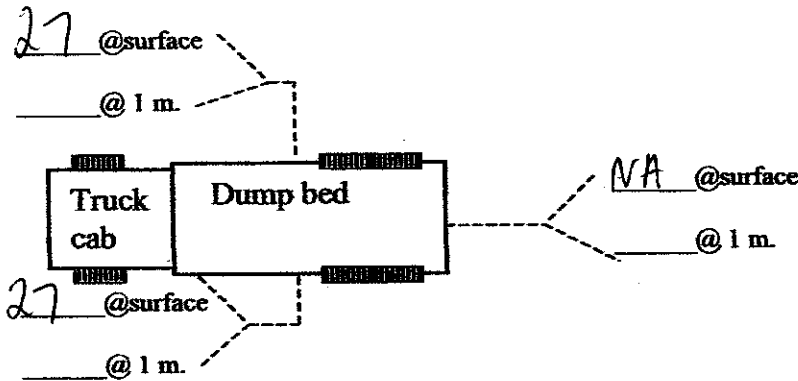
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1238 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

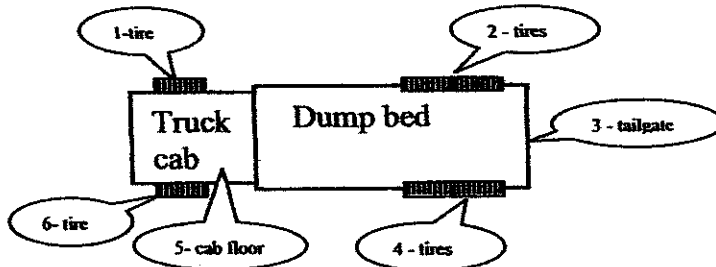
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

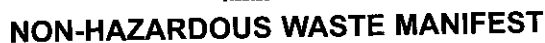
*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



0643467

Please print or type

GENERATOR'S COPY

00000033

515281

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 558673 | GRID 0000 |
| WEIGHMASTER 5500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 1:17 pm |
| DATE OUT 30 August 2007 | | TIME OUT 1:17 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 043467 | ORIGIN | |

Gross Weight 30,460.00 lb
 Tare Weight 35,580.00 lb Inbound -
 Net Weight 44,580.00 lb 22.44 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.44 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Manolo R



NON-HAZARDOUS WASTE MANIFEST

0643467

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-271-3906 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-271-3996 | |
| 4. Phone () 303-271-3906 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Bickman | | | | Signature: [Signature] Month: 8 Day: 10 Year: 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Name] | | | | Signature: M. R. Month: 8 Day: 10 Year: 01 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Name] | | | | Signature: M. R. Month: 8 Day: 10 Year: 01 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: [Name] | | | | Signature: [Signature] Month: 8 Day: 10 Year: 01 | |

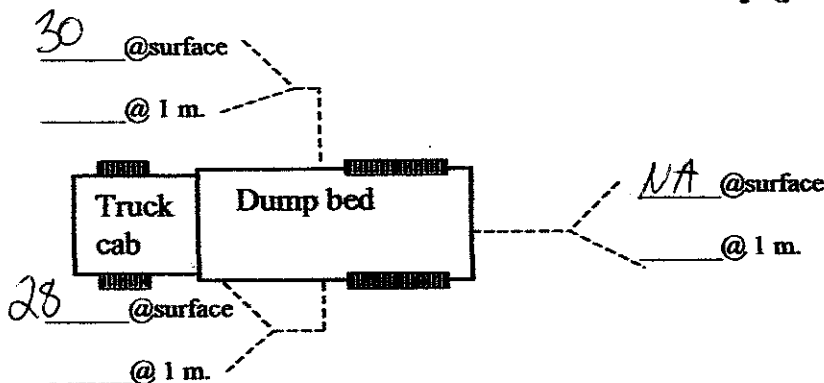
TRANSPORTER #1

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1245 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

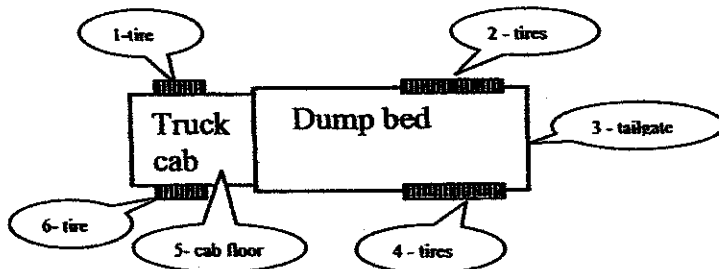
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643458

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Platte St Golden, CO 80401 303-273-2666 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Garfield Golden, CO 80401 303-273-0966 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 10000 Hwy 50 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | 07-117-UP-240-75-1015 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 10 C drums | | | | | |
| 20. Unit Wt/Vol 1 Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannen | | | | Signature [Signature] | |
| | | | | Month Day Year 6 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | |
| | | | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

515200

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80400
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|---------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 525641 | 0000 |
| WEIGHMASTER | | |
| 800056 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 1103 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 1103 am | |
| VEHICLE | ROLL OFF | |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 643448 | | |

Gross Weight 82,000.00 lb
Tare Weight 36,540.00 lb
Net Weight 45,460.00 lb 22.73 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.73 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0643468

Please print or type.

| | | | | | | | |
|--|--|--|--|---|------|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3998 | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Front Hills Landfill 6200 Hwy 90 Golden, CO ACCOUNT # 444666 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 167 070608 7511915 | | 18. Containers | | 19. Total Quantity D-Drums Y-Yards | 20. Unit Wt/Vol G-Gallons T-Tons |
| | | | | No. | Type | | |
| | | | | 18 | Y | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month Day Year 08 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

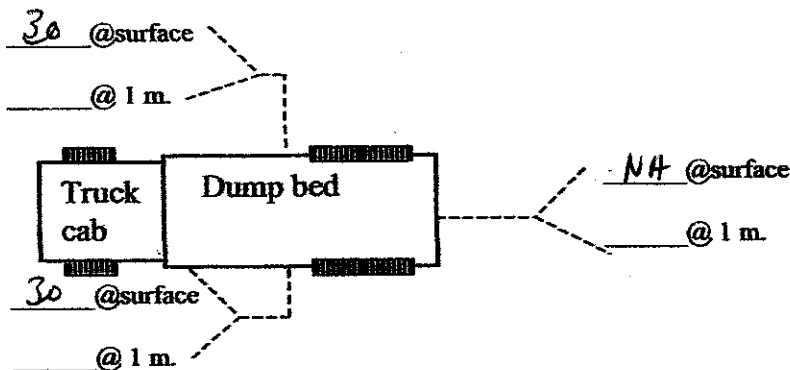
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1252 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

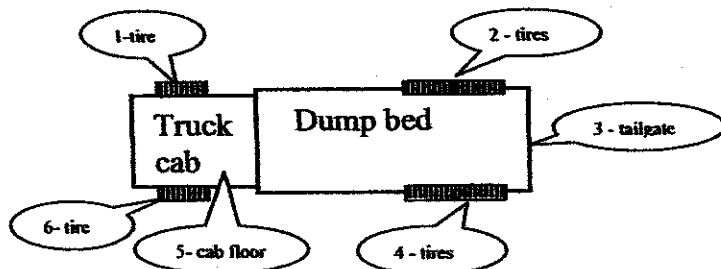
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643469

Please print or type:

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|----|--|-------------------------|-------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-0500 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0500 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothill Station 8900 Hwy 35 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>a.</td> <td></td> <td>100 155 070508 - 011315</td> <td>Yards</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | a. | | 100 155 070508 - 011315 | Yards | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| a. | | 100 155 070508 - 011315 | Yards | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Blanton | | | | Signature [Signature] Month 3 Day 23 Year 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name MARK MELAN | | | | Signature [Signature] Month 8 Day 30 Year 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515273

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555465 | 0000 |
| WEIGHMASTER | | |
| B500052 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 1:09 PM | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 1:09 PM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 640469 | | |

00 Gross Weight 25,600.00 lb
 Tare Weight 35,100.00 lb Inbound --
 Net Weight 50,500.00 lb 25.25 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 25.25 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643469

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Warden Rd Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Brandy Golden, CO 80401 303 273-0668 | |
| 4. Phone () 303 273-0668 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Facility #4 2500 Hwy 105 Golden, CO 80401 (483973 Country Service Center) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Iron Sulfide | | CO 18770301511515 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve S. ... | | | | Signature [Signature] | |
| | | | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] | |
| | | | | Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

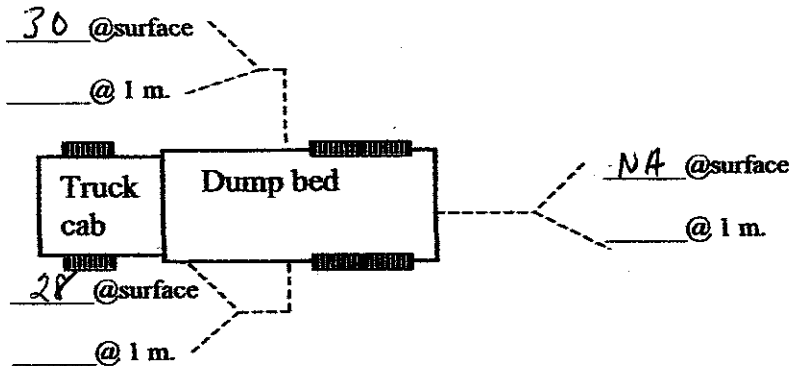
TRANSPORTER #1

COM000038

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1258 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

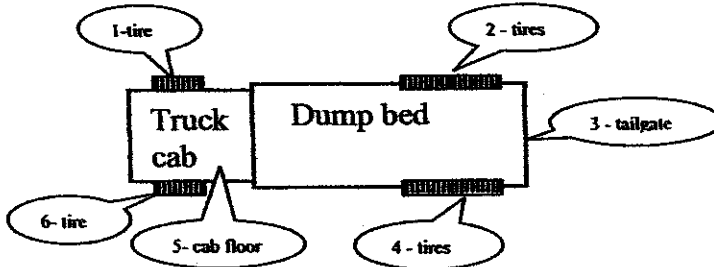
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0643481

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|--|--|-----|------|----|---|
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Genes St Golden, CO 80401 Phone (303) 270-3100 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 Phone (303) 270-3100 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Mountain View 1500 Hwy 50 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>17</td> <td>4</td> </tr> </table> | | No. | Type | 17 | 4 |
| No. | Type | | | | | | | | |
| 17 | 4 | | | | | | | | |
| a. Metal Sol | | COLLECTOR'S 151131 | | 19. Total Quantity 4 Yards | | | | | |
| b. | | | | 20. Unit Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brannon | | Signature <i>[Signature]</i> | | Month Day Year 5 2 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Mike Hauer | | Signature <i>[Signature]</i> | | Month Day Year 5 20 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515235

FOOTHILL LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 583677 | GRID 0000 |
| WEIGHMASTER 8900036 Barbara Jo E | | |
| DATE IN 30 August 2007 | | TIME IN 1:22 pm |
| DATE OUT 30 August 2007 | | TIME OUT 1:22 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645481 | ORIGIN | |

Gross Weight 81,400.00 lb
Tare Weight 34,260.00 lb
Net Weight 47,140.00 lb 23.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Handwritten Signature]*



NON-HAZARDOUS WASTE MANIFEST

0643481

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 15741 Monroe St Golden CO 80401 303-273-0900 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Dime St Golden CO 80401 303-273-0900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 15741 Monroe St Golden CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Normal Soil | | CO 197 (73000) (511913) | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 05 20 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | | | 06 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

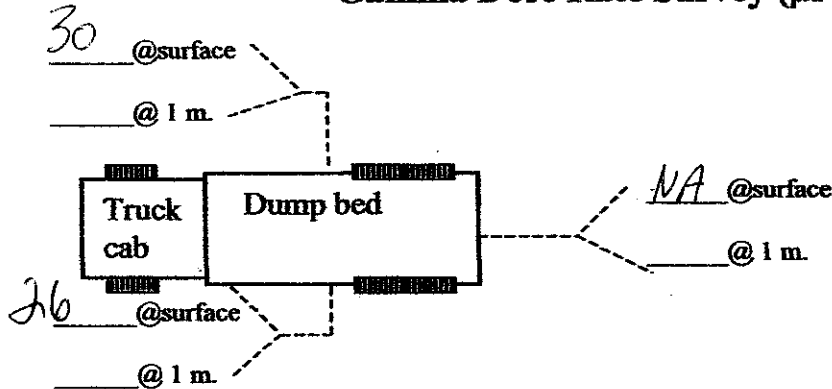
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1308 Surveyed by: C Hicks J Mattson

Trucking Company: Griewe Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

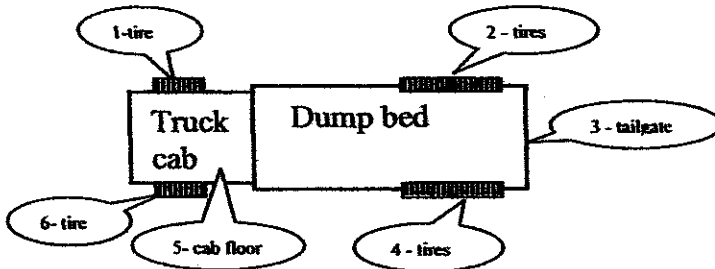
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643482

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|----|---|----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Alameda St. Denver, CO 80202 303-273-3800 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Denver, CO 80401 303-273-3800 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name JDE Grievetrucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Alameda St. Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>18</td> <td>Y</td> <td>18 Yards</td> <td>1-Tons</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | 18 | Y | 18 Yards | 1-Tons | | | | | | | | | | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Y | 18 Yards | 1-Tons | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: Steve Beckman | | | | Signature: [Signature] Month: 8 Day: 30 Year: 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: Ken Shannon | | | | Signature: [Signature] Month: 08 Day: 30 Year: 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

C01000033

24 520230

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
806603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

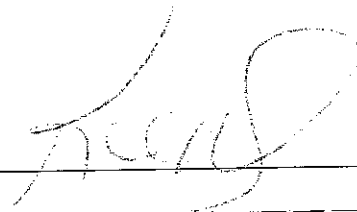
| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 525662 | 0000 |
| WEIGHMASTER | | |
| 500005, Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 1:28 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 1:28 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 643462 | | |

Gross Weight 34,500.00 lb
Tare Weight 37,200.00 lb
Net Weight 47,000.00 lb 23.65 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.65 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0643482

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1300 W. 1st St. Golden, CO 80401 303-273-1996 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name J DeGrievetrucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1300 W. 1st St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. North Soil | | 17. Allied Waste Approval # and Exp. Date 2016/03/23/01/1915 | | 18. Containers No. Type 18 Y | |
| b. | | | | 19. Total Quantity Yards Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature [Signature] | | Month Day Year 8 30 17 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature [Signature] | | Month Day Year 08 30 17 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

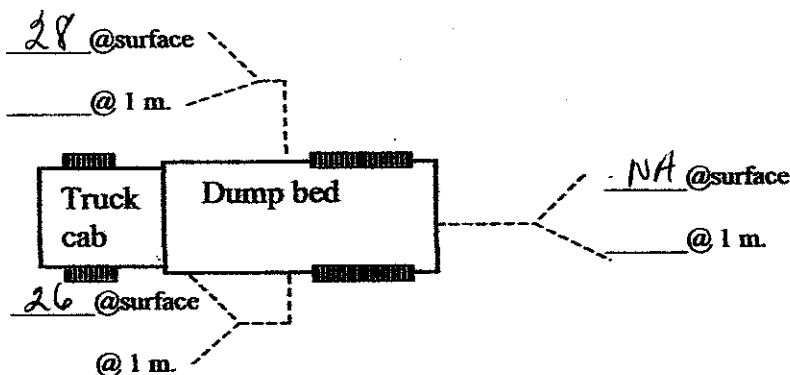
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1315 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

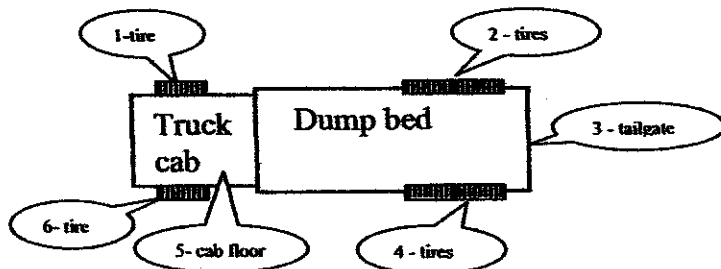
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643483

Please print or type.

| | | | | | | | | | |
|--|--|---|---|----------------------------|--|--------------------|--|------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3508 | | | | | | |
| 4. Phone () 303-273-3508 | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Front Range Landfill 8555 E. 14th St Denver, CO 80231 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Waste Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 007 070800 7/1/1915 | | 18. Containers | | 19. Total Quantity | | 20. Unit | |
| | | | | No. Type | | Drums | | Gallons | |
| | | | | | | 1-Drums | | 1-1015 | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Borkman | | | | Signature | | | | Month Day Year 8 20 15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Kenneth H. Hurd | | | | Signature | | | | Month Day Year 7 20 15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

513297

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 760803
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 038487 | 0000 |
| WEIGHMASTER | | |
| 2500036 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 1:54 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 1:54 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 643480 | | |

Gross Weight 80,220.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 43,640.00 lb 21.82 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.82 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0643483

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1310 Wilcox St Golden, CO 80401 303-273-3946 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Grant St Golden, CO 80401 303-273-3946 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Cortez Landfill 8600 Hwy 50 Cortez, CO 81301 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | CO 070908 151115 | | 19. Total Quantity Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Byrd | | Signature | | Month Day Year 8 20 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Lopez | | Signature | | Month Day Year 8 20 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

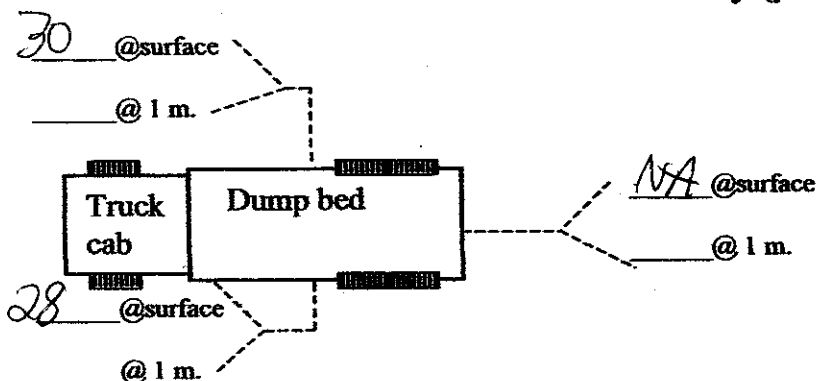
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1322 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

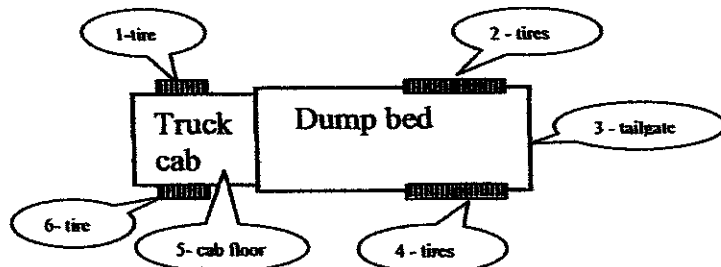
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643484

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|----|--|---------|------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address School of Marine Research Institute 1900 Bridge St Camden, NJ 08101 856-273-3400 | | | | 5. Generating Location (if different) North West of 12th and Birch St Camden, NJ 08101 856-273-3400 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 2000 1st St Camden, NJ 08101 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>a.</td> <td></td> <td>7-yards</td> <td>Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | a. | | 7-yards | Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| a. | | 7-yards | Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| Steve B... | | | | 2 20 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| San J. Vargas | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000038

525302

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 558394 | | 0000 | |
| WEIGHMASTER | | | | | |
| 1500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 30 August 2007 | | | 1:41 pm | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 1:41 pm | | |
| VEHICLE | | | ROLL OFF | | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 543484 | | | | | |

Gross Weight 75,500.00 lb
 Tare Weight 35,640.00 lb Incurred -
 Net Weight 39,860.00 lb 19.93 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.93 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

8-30-07



NON-HAZARDOUS WASTE MANIFEST

0643484

Please print or type.

| | | | | | | | |
|--|--|---|--|--|------|---|-------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1400 N. 1st St. Golden, CO 80401 303-273-3906 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3906 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 2000 Hwy 50 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Drums | 20. Unit Wt/Vol Tons |
| | | | | No. | Type | | |
| a. Normal Soil | | JUL 07 085008 VS1104E | | | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name <u>Steve Brimmer</u> | | | | Signature <u>[Signature]</u> | | Month <u>6</u> Day <u>10</u> Year <u>07</u> | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name <u>Santiago Vargas</u> | | | | Signature <u>[Signature]</u> | | Month <u>6</u> Day <u>10</u> Year <u>07</u> | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month <u>6</u> Day <u>10</u> Year <u>07</u> | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month <u>6</u> Day <u>10</u> Year <u>07</u> | |

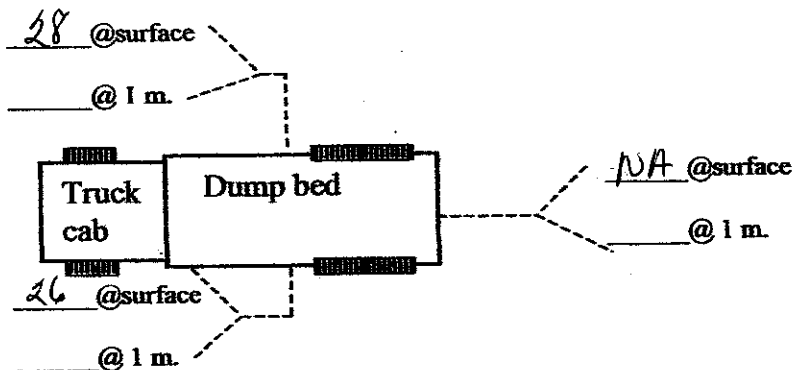
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1340 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

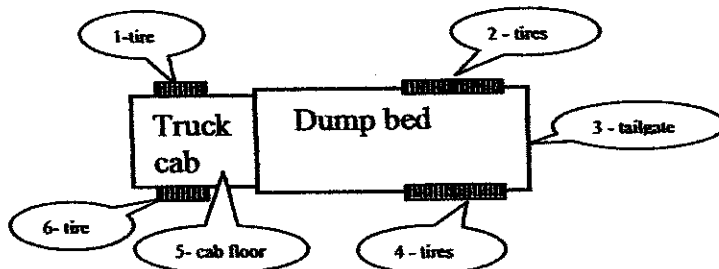
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643485

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Sines St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303 273-0600 | |
| 4. Phone () 303 273-0600 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Sines St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non-Haz | | CO-USE 273008 10/1/05 | | 19. Total Quantity 10 Drums | |
| b. | | | | 20. Unit Wt/Vol 7-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve E. Johnson | | Signature: [Signature] | | Month Day Year 06 06 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Rafael Colares Lopez | | Signature: [Signature] | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515319

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 760602
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE1191E

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556706 | 0000 |
| WEIGHMASTER | | |
| #500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 2:03 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 2:03 pm | |
| VEHICLE | ROLL OFF | |
| YE1191E | | |
| REFERENCE | ORIGIN | |
| 643465 | | |

00 Gross Weight 83,920.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 48,220.00 lb 24.11 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.11 | TN | SUB-COMT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643485

Please print or type

| | | | | | | | | |
|--|--|---|--|---|--|---|----------------------------|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1800 Illinois St Golden, CO 80401 Phone () 303-273-3340 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 Phone () 303-273-3340 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Schulte Landfill 6200 Hwy 90 Golden, CO 80401 (located at the former Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Non Sol b. c. d. | | 17. Allied Waste Approval # and Exp. Date 201670040017511015 | | 18. Containers | | 19. Total Quantity Ct/Tons 7 Tons | 20. Unit Wt/Vol Tons | |
| | | | | No. | | | | |
| | | | | Type | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name: Steve Beckman | | | | Signature: [Signature] | | Month: 08 | Day: 20 | Year: 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name: Michael Collozo Lopez | | | | Signature: [Signature] | | Month: 08 | Day: 30 | Year: 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: | Day: | Year: |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: | Day: | Year: |

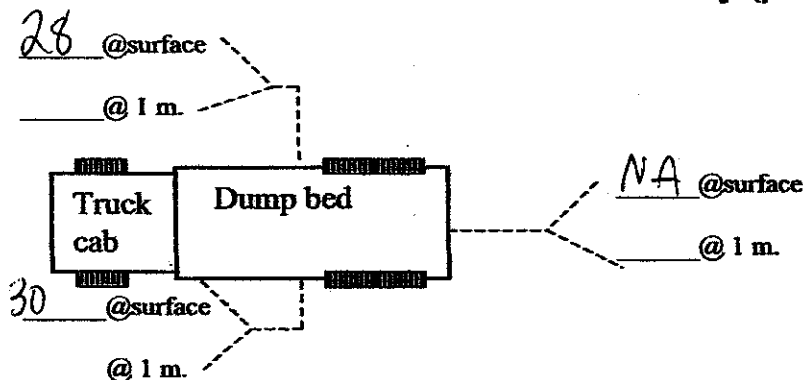
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1748 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

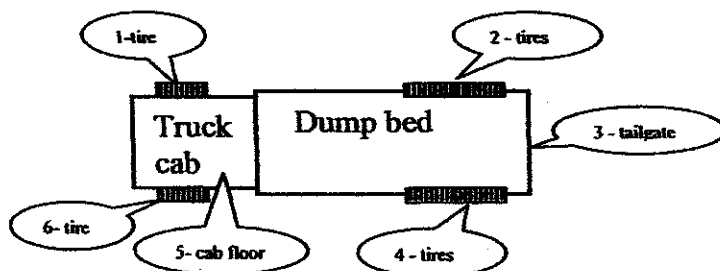
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643436

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1234 Main St Denver, CO 80401 303-271-0000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-271-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1234 Main St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Horns | | CO 1879/0000 1/1/15 | | 19. Total Quantity 1000 lbs | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benning | | Signature | | Month Day Year 12 20 15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Benning | | Signature | | Month Day Year 12 20 15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

518323

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
780603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | |
|----------------------|--------|----------|------|
| SITE | | TICKET | GRID |
| 01 | | 55571E | 0000 |
| WEIGHMASTER | | | |
| 0500056 Barbara Jo S | | | |
| DATE IN | | TIME IN | |
| 30 August 2007 | | 2:06 pm | |
| DATE OUT | | TIME OUT | |
| 30 August 2007 | | 2:06 pm | |
| VEHICLE | | ROLL OFF | |
| Y511915 | | | |
| REFERENCE | ORIGIN | | |
| 643466 | | | |

00 Gross Weight 78,800.00 lb
Tare Weight 32,980.00 lb Inbound -
Net Weight 41,820.00 lb 20.91 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.91 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0643486

Please print or type

| | | | | | | | | |
|--|--|--|--|---|------|--------------------|----------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3008 | | | | |
| 4. Phone () 303-273-3008 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Non-hazardous b. c. d. | | 17. Allied Waste Approval # and Exp. Date 0018/000001/01015 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | Drums | Wt/Vol | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name <i>Steve Benbrook</i> | | | | Signature <i>[Signature]</i> | | Month | Day | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

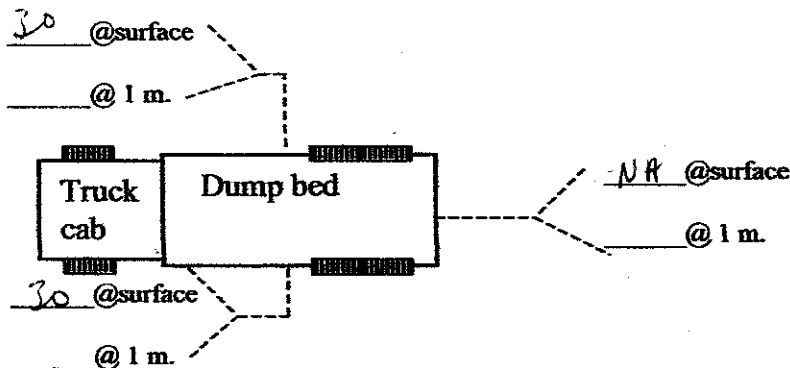
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1357 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

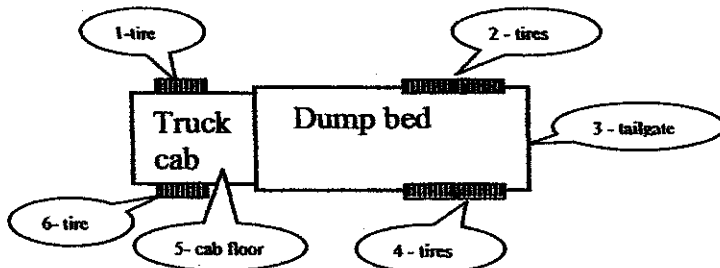
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643487

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 12th St. Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | |
| 4. Phone () 303-273-3900 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 W. 12th St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Scrap Steel | | 700700000-EN1915 | | No. Type | |
| b. | | | | 18 4 | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| Yards | | Tons | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Beckman | | | | 5 2 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

001000033

515330

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511715

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 526712 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 2:22 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 2:22 pm | |
| VEHICLE | ROLL OFF | |
| Y511715 | | |
| REFERENCE | ORIGIN | |
| 543467 | | |

Gross Weight 84,320.00 lb
Tare Weight 36,540.00 lb
Net Weight 47,780.00 lb 23.69 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.69 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0643487

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3998 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 90 Golden, CO ACCOUNT # 800-003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070308 511915 | | 19. Total Quantity D-Drums 0 Y-Yards 18 T-Tons 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brahman | | Signature | | Month Day Year 08 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

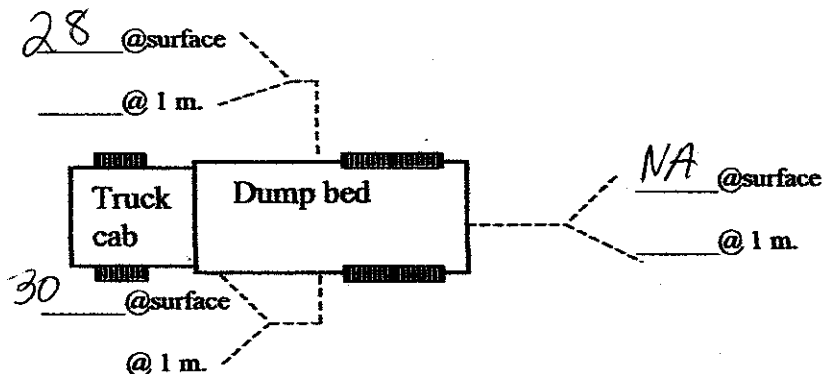
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1402 Surveyed by: C Hicks J Mattson
 Trucking Company: Griev Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

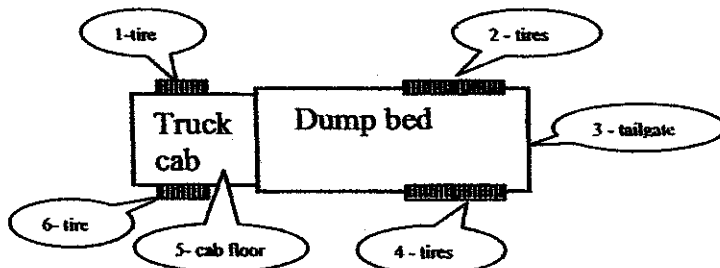
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643488

Please print or type

| | | | | | | | |
|--|--|---|--|--|--|---|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Blaine St Golden, CO 80401 303-273-0100 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0008 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 3001 Hwy 50 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Iron Sulfide b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00107 07/01/07 to 11/01/07 | | 18. Containers | | 19. Total Quantity 0.000000 Y-Yards T-Tons | 20. Unit Wt/Vol Tons |
| | | | | No. Type | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name: Steve Beckman | | | | Signature: [Signature] | | Month: 6 Day: 30 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: MARK PHELAN | | | | Signature: [Signature] | | Month: 8 Day: 30 Year: 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month: Day: Year: | |

GENERATOR'S COPY

COM000033

515301

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
806603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

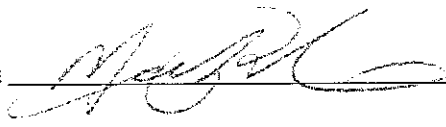
Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588719 | 0000 |
| WEIGHMASTER | | |
| B500036 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 2:25 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 2:25 pm | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 643405 | | |

Gross Weight 84,720.00 lb
Tare Weight 35,100.00 lb
Net Weight 49,620.00 lb 24.81 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.81 | TN | SUB-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0643488

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1380 Wilkes St Golden, CO 80401 303-273-9000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-2908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1380 Wilkes St Golden, CO 80401 Colorado School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North St | | 0643488-0100 | | 7 Yards 1 tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Beckman | | Signature: [Signature] | | Month Day Year 5 20 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: MARK PHILAN | | Signature: [Signature] | | Month Day Year 5 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | |

TRANSPORTER #1

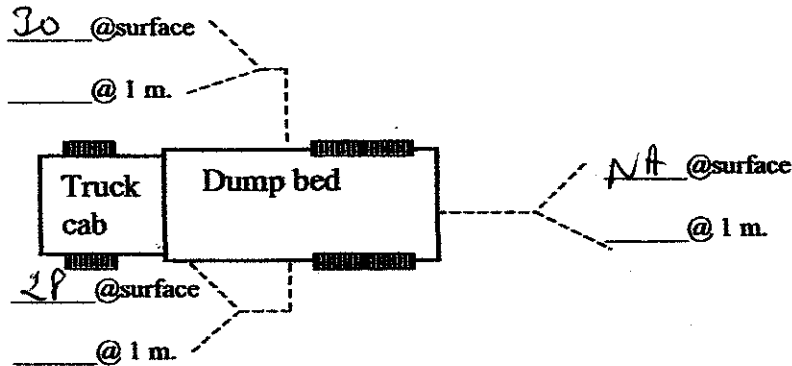
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1410 Surveyed by: C Hicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

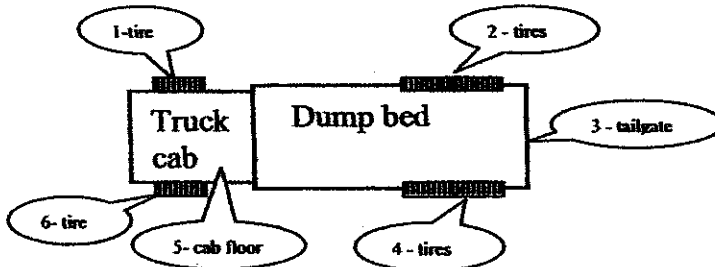
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 6120 | | | | 6220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643490

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-0000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and High St Golden, CO 80401 303-273-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden, CO 80401 303-273-0000 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | b. | | c. | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000083

515339

FOOTHILLS LANDFILL
 8700 HIGHWAY 70
 GOLDEN
 CO
 80400
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 528727 | 0000 |
| WEIGHMASTER | | |
| 2500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 2:33 PM | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 2:33 PM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 643490 | | |

Gross Weight 21,940.00 lb
 Tare Weight 34,400.00 lb Inbound --
 Net weight 47,540.00 lb 23.77 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.77 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643490

Please print or type

| | | | | | | | | | | | |
|--|--|---|--|--|--|-----------------------------|------------------|-----------|--|------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address 1000 Phoenix Dr Garden City, NY 11530 303-773-3867 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and North St Garden, CO 80401 303-773-3860 | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 6000 E. 1st St Garden City, NY 11530 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Non-Hazardous b. c. d. | | 17. Allied Waste Approval # and Exp. Date 001101000001010000 | | 18. Containers | | 19. Total Quantity Yards | 20. Unit Tons | | | | |
| | | | | No. Type | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 8 | | Day 30 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name David J. Davis | | | | Signature | | Month 7 | | Day 21 | | Year 11 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |

TRANSPORTER #1

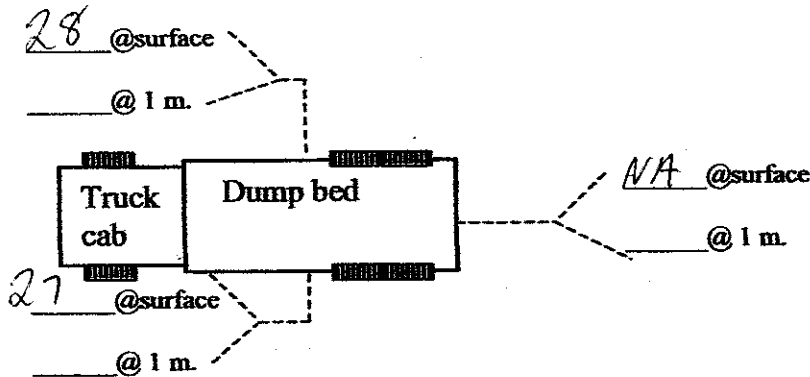
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1416 Surveyed by: C Hicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: JD 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

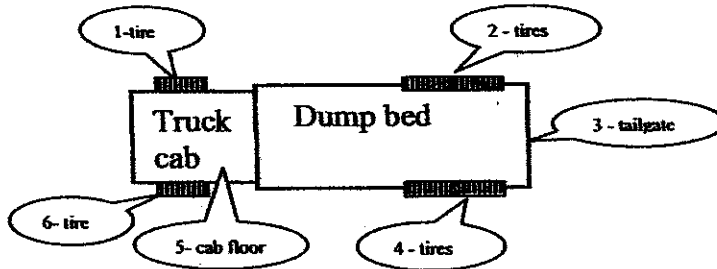
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643489

Please print or type.

| | | | | | |
|--|--|---|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Golden, CO 80401 303-273-3555 | | | 5. Generating Location (if different) University of Colorado School of Mines Research Institute North West of 12th and Dahlia St. Golden, CO 80401 303-273-3555 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Fountain Valley 18201 Hwy 92 Golden, CO 80401 #303-273-3555 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Non Soil | | 00197 079606 7511915 | | 17 Tanks 1 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Berkman | | | | Signature [Signature] Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Hancock | | | | Signature [Signature] Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Hancock | | | | Signature [Signature] Month Day Year 8 30 07 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

515349

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 588737 | GRID 0000 |
| WEIGHMASTER B50005s Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 2:42 pm |
| DATE OUT 30 August 2007 | | TIME OUT 2:42 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 643457 | ORIGIN | |

Gross Weight 77,920.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 42,340.00 lb 21.17 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Manolo



NON-HAZARDOUS WASTE MANIFEST

0643489

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|---|--|--|-----|------|--------------------|-----------------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 11th St Golden, CO 80401 303-273-3496 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3496 | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 11th St Golden, CO 80401 303-273-3496 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>a.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | a. | | | | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Metal Shavings | | 2015/01/06/08 Y511915 | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: Steve Berchman | | | | Signature: [Signature] Month: 3 Day: 23 Year: 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: 3 Day: 23 Year: 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: 3 Day: 23 Year: 07 | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | | | | | | | | | | | | | |

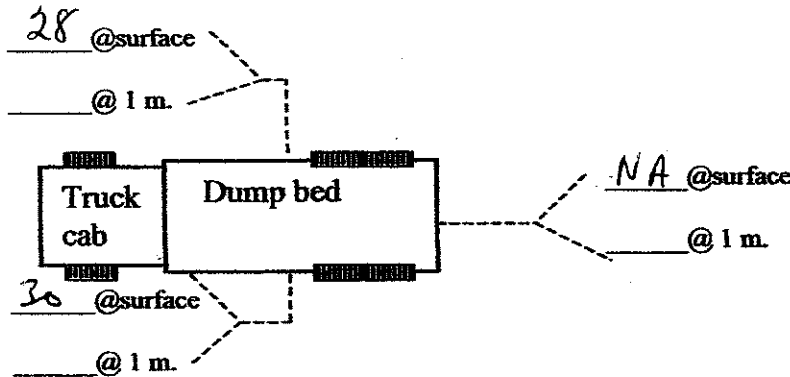
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1424 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

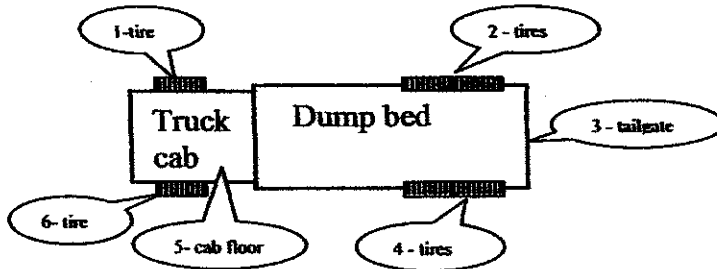
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592031

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|--|--|-----|------|----|---|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St. Golden, CO 80601 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Davis Golden, CO 80601 303-273-3000 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1600 Illinois St. Golden, CO 80601 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>18</td> <td>4</td> </tr> </table> | | No. | Type | 18 | 4 |
| No. | Type | | | | | | | | |
| 18 | 4 | | | | | | | | |
| a. Non Sol | | CO 147 07007-011910 | | 19. Total Quantity 0.000000 | | | | | |
| b. | | | | 20. Unit Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | Signature <i>Steve Beckman</i> | | Month Day Year 1 2007 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Mike Murray | | Signature <i>Mike Murray</i> | | Month Day Year 1 2007 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |

GENERATOR'S COPY

COM000033

515354

FOOTHILLS LANDFILL
 6900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11515

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 536742 | 0000 |
| WEIGHMASTER | | |
| 3500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 1:45 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 2:45 pm | |
| VEHICLE | ROLL OFF | |
| YS11515 | | |
| REFERENCE | ORIGIN | |
| 590031 | | |

Gross Weight 53,120.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 48,860.00 lb 24.43 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.43 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Michael D.



NON-HAZARDOUS WASTE MANIFEST

0592031

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|---|--|-----|------|----|---|
| 3. Generator's Name and Mailing Address 10000 W. 1st Suite 100 Golden, CO 80401 303 273-3090 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Embury Golden, CO 80401 303 273-3090 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 10000 W. 1st Suite 100 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>4</td> </tr> </tbody> </table> | | No. | Type | 18 | 4 |
| No. | Type | | | | | | | | |
| 18 | 4 | | | | | | | | |
| a. Inert Soil | | CO17075001741015 | | 19. Total Quantity 7 Yards | | | | | |
| b. | | | | 20. Unit Wt/Vol Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature <i>[Signature]</i> | | Month Day Year 8 2007 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Mike Murray | | Signature <i>[Signature]</i> | | Month Day Year 8 2007 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |

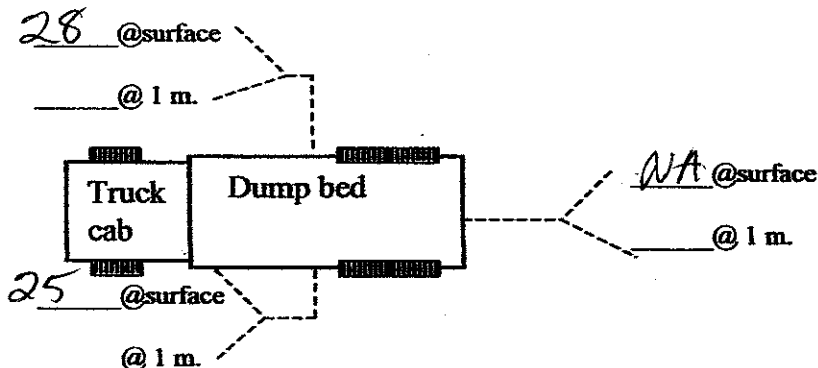
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1430 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Griewe Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

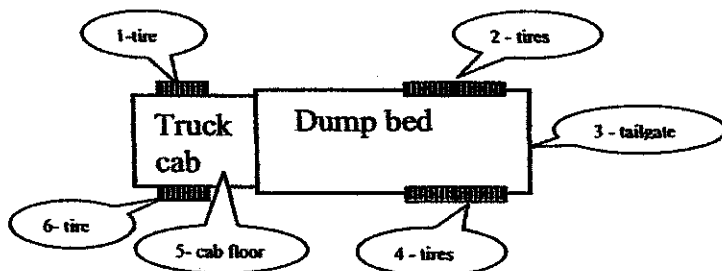
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0582030

Please print or type.

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1570 Illinois St. Golden, CO 80401 303 273-3658 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Duval St. Golden, CO 80401 303 273-3658 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Toe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1570 Illinois St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Metal Rod | | 17. Allied Waste Approval # and Exp. Date CO LST 070006 12/1/85 | | 18. Containers No. Type 18 Y | |
| b. | | | | 19. Total Quantity 0.000000 | |
| c. | | | | 20. Unit Wt/Vol Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Zentgraf | | Signature [Signature] | | Month Day Year 8 2 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature Ken Shannon | | Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 51335

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 558747 | GRID 0000 |
| WEIGHMASTER 5500053 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 2:54 pm |
| DATE OUT 30 August 2007 | | TIME OUT 2:54 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592030 | ORIGIN | |

Gross Weight 82,400.00 lb
 Tare Weight 37,200.00 lb Inbound -
 Net Weight 45,200.00 lb 22.60 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.60 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

Kearns



NON-HAZARDOUS WASTE MANIFEST

0592030

Please print or type.

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address North West of 12th and Birch St Golden, CO 80401 303 273 3868 | | | | 5. Generating Location (if different) North West of 12th and Birch St Golden, CO 80401 403 273 3868 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Toe Griever Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Iron Soil | | 17. Allied Waste Approval # and Exp. Date 10/15/2008 11/15/15 | | 18. Containers No. Type 18 Y | |
| b. | | | | 19. Total Quantity 7 Yards | |
| c. | | | | 20. Unit Wt/Vol Yards | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Shannon | | | | Signature Steve Shannon Month Day Year 8 2007 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature Ken Shannon Month Day Year 08/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

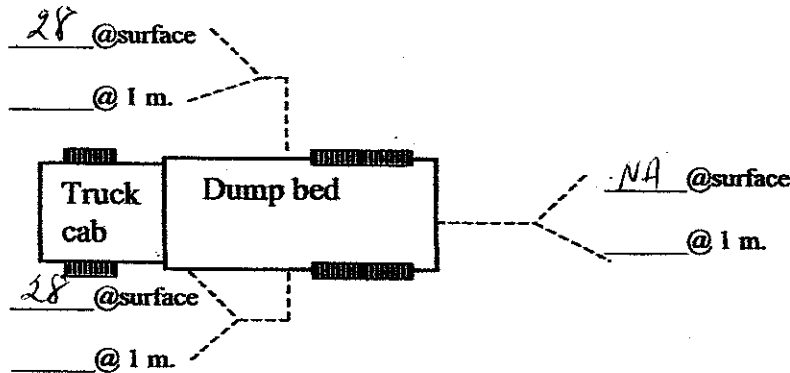
TRANSPORTER #1

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1438 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

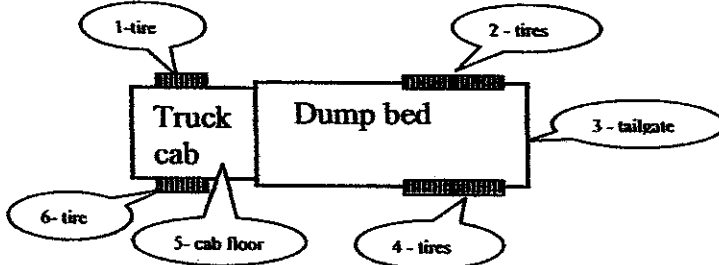
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592029

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Oxford, CO 80401 303-273-0000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Arch St. Oxford, CO 80401 303-273-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greco Recycling, Inc. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Coolidge Landfill 14301 Hwy 75 Pueblo, CO 81001 (North of Pueblo School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. (Form 100) | | CO 167 071800 1511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Buchanan | | Signature [Signature] | | Month Day Year 5 20 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Dennis J. Carter | | Signature [Signature] | | Month Day Year 5 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 52
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

R. 315882

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 528750 | GRID 0000 |
| WEIGHMASTER PS00056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 2:57 pm |
| DATE OUT 30 August 2007 | | TIME OUT 2:57 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 592029 | ORIGIN | |

Gross Weight 83,920.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 46,220.00 lb 23.11 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.11 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0592029

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Greene Trucking #12 | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 4950 Hwy 92 Golden, CO 80401 (Golden School of Mines) | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Normal Soil | | CO 167 070900 1511915 | | 18. Containers | |
| b. | | | | No. Type | |
| c. | | | | 18 Yards Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Berkman | | | | 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Sean J. O'Neil | | | | 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

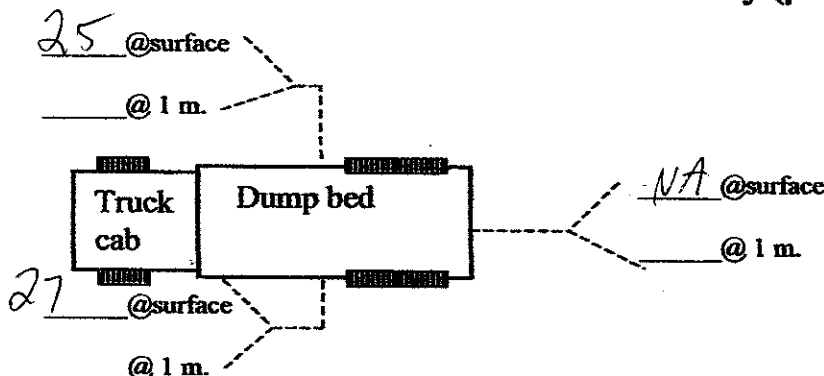
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1443 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

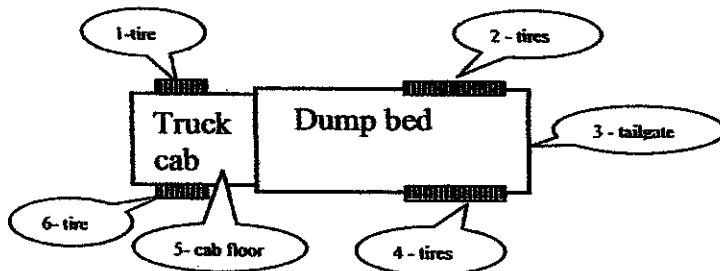
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592028

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|--|--|-----|------|--|--|
| 3. Generator's Name and Mailing Address 1500 Wilson St Ocala, FL 32668 352-273-0266 | | | | 5. Generating Location (if different) Ocala School of Manas Research Institute North west of 12th and 19th St Ocala, FL 32601 352-273-0996 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Wilson St Ocala, FL 32668 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td></td> <td></td> </tr> </table> | | No. | Type | | |
| No. | Type | | | | | | | | |
| | | | | | | | | | |
| a. | | 00197 J7094 1511915 | | 19. Total Quantity C/D Yards | | | | | |
| b. | | | | 20. Unit Wt/Vol C/D Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Benjamin | | Signature | | Month Day Year 5 2 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Fernando Hernandez | | Signature | | Month Day Year 5 2 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |

GENERATOR'S COPY

COM000033

515357

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804008
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y311915

| | | |
|-----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 5837EE | 0000 |
| WEIGHMASTER | | |
| IS000036 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 30 August 2007 | | 3:04 pm |
| DATE OUT | | TIME OUT |
| 30 August 2007 | | 3:04 pm |
| VEHICLE | | ROLL OFF |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 592088 | | |

Gross Weight 77,580.00 lb
 Tare Weight 36,580.00 lb Inbound --
 Net Weight 41,000.00 lb 20.50 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.50 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0592028

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|---|--|-----|------|--|--|
| 3. Generator's Name and Mailing Address 1500 10th St Denver, CO 80202 303-733-1000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West at 12th and Smith Denver, CO 80202 303-733-3668 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 10th St Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td></td> <td></td> </tr> </table> | | No. | Type | | |
| No. | Type | | | | | | | | |
| | | | | | | | | | |
| a. Name Description | | 19. Total Quantity | | 20. Unit Wt/Vol | | | | | |
| | | Yards | | Tons | | | | | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | | | | |
| | | | | Month Day Year 5 20 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Fernando Hernandez | | | | Signature | | | | | |
| | | | | Month Day Year 5 20 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

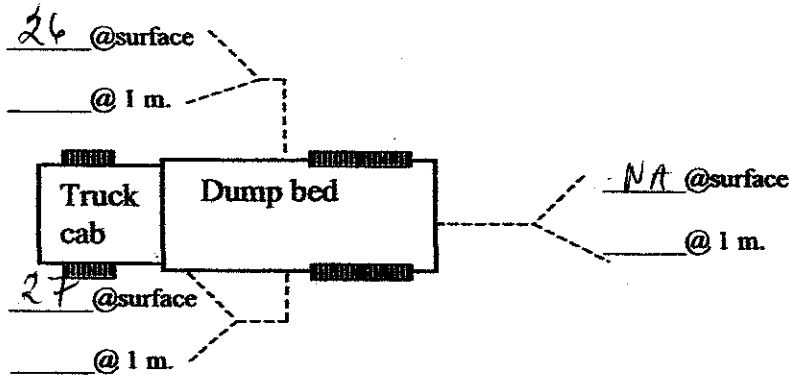
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1450 Surveyed by: C Hicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

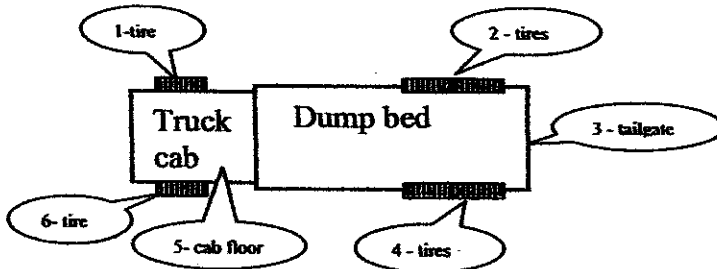
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | L 220 | | | | L 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592027

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 12th St. Golden, CO 80401 303-273-3500 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Nighth Golden, CO 80401 303-273-3500 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontier Landfill 5900 Hwy 90 Golden, CO 80401 (Contacted for Disposal of Waste) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Iron Soil | | CO LF767098 051915 | | 10 Drums 10 Gallons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Denham | | | | Signature: [Signature] Month: 8 Day: 20 Year: 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Santiago Vargas | | | | Signature: [Signature] Month: Day: Year: | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |

GENERATOR'S COPY

COM000033

515372

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 555760 | GRID 0000 |
| WEIGHMASTER US00056 Barbara Jo S | | |
| DATE IN 00 August 2007 | | TIME IN 3:12 pm |
| DATE OUT 00 August 2007 | | TIME OUT 3:12 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 572027 | ORIGIN | |

Gross Weight 75,700.00 lb
 Tare Weight 35,640.00 lb Inbound -
 Net Weight 40,060.00 lb 20.03 Tn

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.03 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

8-30-07



J 004

Please print or type.

NON-HAZARDOUS WASTE MANIFEST

0592027

| | | | | | | | | | | |
|--|--|--------------------------|--|---|---|----------------------------|--|--------------------|-----------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address 1000 10th St Golden, CO 80401 303-273-3000 | | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Arapahoe Golden, CO 80401 303-273-3000 | | | | | |
| 4. Phone () | | | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| a. Name Soil | | | | 02/17/2008-01/01/10 | | No. Type | | Drum | 200 Gallons | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Blum | | | | | Signature [Signature] | | | Month 8 | Day 20 | Year 21 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Santiago Vargas | | | | | Signature [Signature] | | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month | Day | Year |

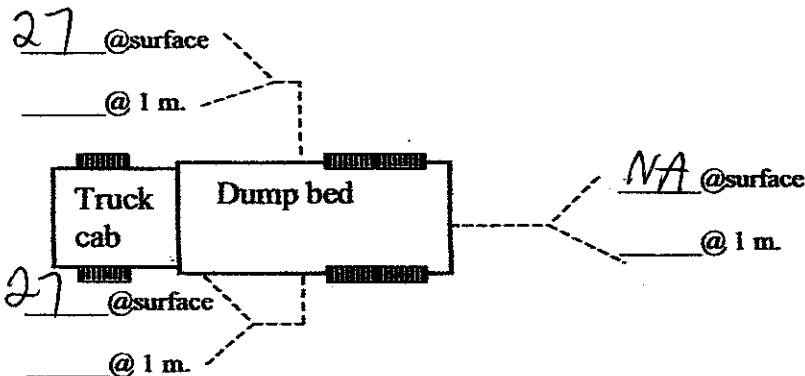
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1459 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

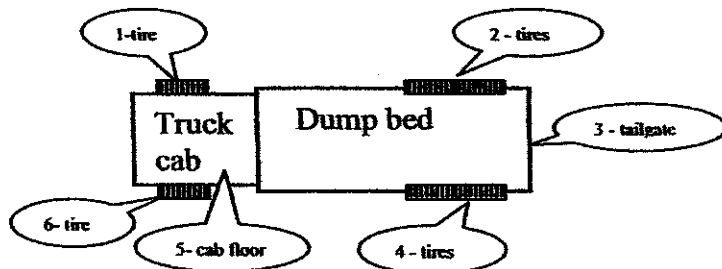
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592026

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|---|--|--|-----|------|----|--|
| 3. Generator's Name and Mailing Address 1507 18th St Golden, CO 80401 303-275-3366 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-275-3498 | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1507 18th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>18</td> <td></td> </tr> </table> | | No. | Type | 18 | |
| No. | Type | | | | | | | | |
| 18 | | | | | | | | | |
| a. Home Soil | | 0016700000 7511315 | | 19. Total Quantity 17 Yards | | | | | |
| b. | | | | 20. Unit Wt/Vol 1-Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Zuckerman | | Signature <i>[Signature]</i> | | Month Day Year 08 30 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Michael Collier Lopez | | Signature <i>[Signature]</i> | | Month Day Year 08 30 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |

GENERATOR'S COPY

COM000033

320374

FOOTHILLS LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
950603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y51191E

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 585762 | 0000 |
| WEIGHMASTER | | |
| #000056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 30 August 2007 | | 0:14 pm |
| DATE OUT | | TIME OUT |
| 30 August 2007 | | 0:14 pm |
| VEHICLE | | ROLL OFF |
| Y51191E | | |
| REFERENCE | ORIGIN | |
| 572036 | | |

Gross Weight 32,200.00 lb
Tare Weight 35,700.00 lb
Net Weight 46,500.00 lb 23.25 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.25 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592026

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Buick St Golden, CO 80401 303-771-1900 | | | | 5. Generating Location (if different) School of Mines Research Institute North West at 12th and Buick St Golden, CO 80401 303-270-3436 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1501 Buick St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Item Sol | | 00147-070500-01-11010 | | 18. Containers | |
| b. | | | | 19. Total Quantity | |
| c. | | | | 20. Unit Wt/Vol | |
| d. | | | | 20. Unit Wt/Vol | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Z... | | | | 08 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Michael Collier Lopez | | | | 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

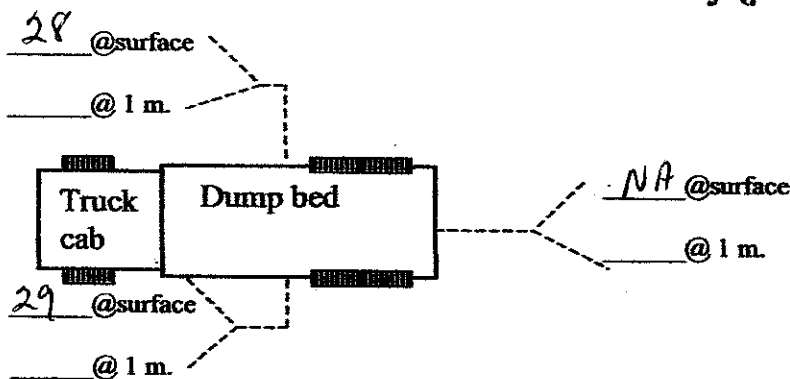
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1503 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

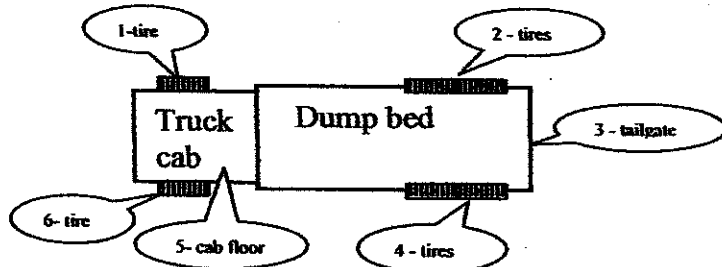
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



0592025

| T/S/D FACILITY | TRANSPORTER | ↓ | GENERATOR |
|----------------|-------------|---|-----------|
| | | | |

515378

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 528766 | | 0000 | |
| WEIGHMASTER | | | | | |
| AS00056 Barbara Jo B | | | | | |
| DATE IN | | | TIME IN | | |
| 30 August 2007 | | | 3:17 pm | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 3:19 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 592025 | | | | | |

Gross Weight 79,100.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 40,120.00 lb 20.06 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0592025

Please print or type.

| | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|--|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1700 W. 1st St Suite 200 Chicago, IL 60601 Phone () 312-271-1400 | | | | 5. Generating Location (if different) Contract School of Waste Research Institute 14th West of 12th and Birch St Chicago, IL 60601 Phone () 312-271-1400 | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address 1700 W. 1st St Chicago, IL 60601 | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity |
| | | | | | No. Type | | Wt/Vol |
| a. | | | | | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name <u>Steve Brinkman</u> | | | | Signature <u>[Signature]</u> | | Month <u>8</u> Day <u>30</u> Year <u>97</u> | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name <u>Michael [Signature]</u> | | | | Signature <u>[Signature]</u> | | Month <u>10</u> Day <u>30</u> Year <u>97</u> | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

TRANSPORTER #1

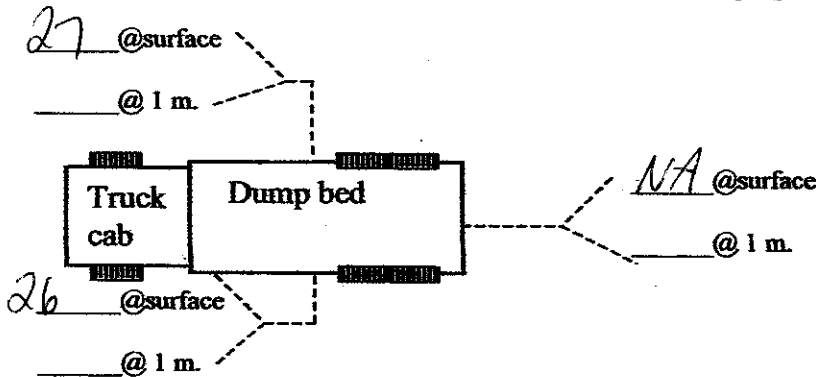
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1511 Surveyed by: C Hicks J Mattson

Trucking Company: Griewe Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

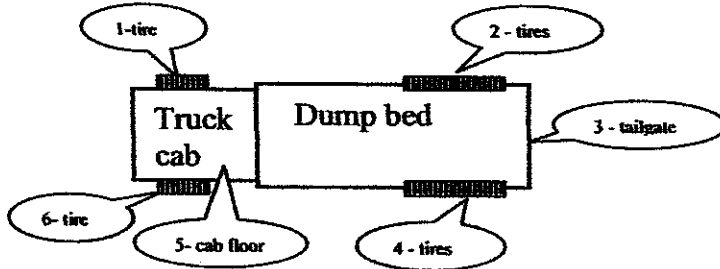
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592022

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|---|--|-----|------|----|---|
| 3. Generator's Name and Mailing Address 1000 Main St Oshon, CO 80401 303-273-0090 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Oshon, CO 80401 303-273-0090 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Main St Oshon, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>18</td> <td>4</td> </tr> </table> | | No. | Type | 18 | 4 |
| No. | Type | | | | | | | | |
| 18 | 4 | | | | | | | | |
| a. Normal Soil | | 0-107-070900 Y611910 | | 19. Total Quantity Y Yards | | | | | |
| b. | | | | 20. Unit Wt/Vol Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 8 2 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 30 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |

GENERATOR'S COPY

COM000033

515384

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
80401
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 555772 | GRID 0000 |
| WEIGHMASTER 5500054 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 0422 PM |
| DATE OUT 30 August 2007 | | TIME OUT 0428 PM |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 572022 | ORIGIN | |

Gross Weight 82,420.00 lb
Tare Weight 36,540.00 lb
Net Weight 45,880.00 lb 23.04 TN

Incoming -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.04 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0592022

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1600 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1600 Illinois St Golden, CO 80401 School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO 167 070908 Y511015 | | 18 4 Y Yards T Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Binkman | | | | 8 20 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

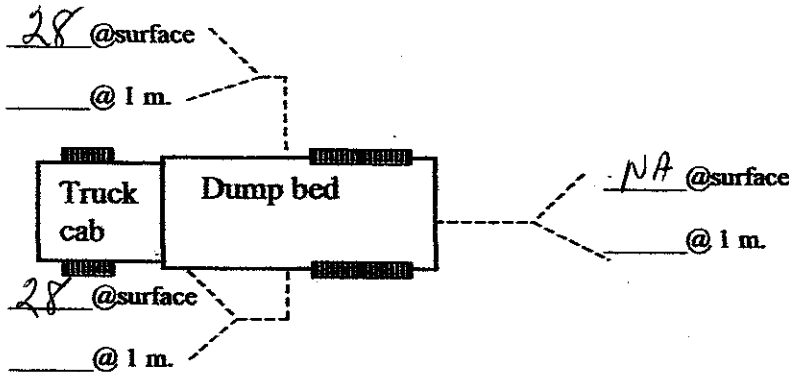
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1577 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

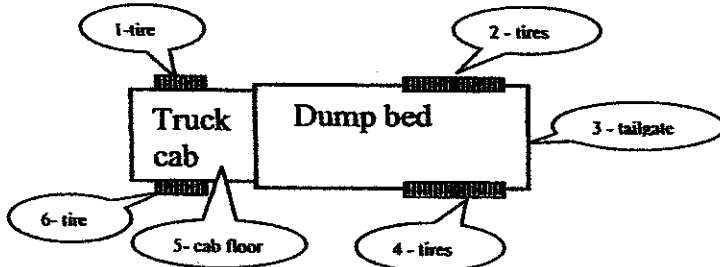
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592023

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|--|--|----------|----------|--|--|--|--|--|--|--|--|--|--|--|--|
| 3. Generator's Name and Mailing Address 1000 Bluffs Dr Denver, CO 80202 (303) 733-1000 | | | | 5. Generating Location (if different) 1000 Bluffs Dr Denver, CO 80202 (303) 733-1000 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Bluffs Dr Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Harm Soil | | 001070000000000000 | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>12 drums</td> <td>12 drums</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 12 drums | 12 drums | | | | | | | | | | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| | | 12 drums | 12 drums | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Benham | | Signature [Signature] | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name MARK PHELAN | | Signature [Signature] | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

515387

FOOTHILLS LANDFILL
 2700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YB11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 238775 | 0000 |
| WEIGHMASTER | | |
| 0500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 3:33 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 3:53 pm | |
| VEHICLE | ROLL OFF | |
| YB11915 | | |
| REFERENCE | ORIGIN | |
| 596023 | | |

Gross Weight 52,320.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 47,220.00 lb 23.61 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.61 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0592023

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|-----------------|---|--|--|--|--------------------|-----------------|---------|-------|
| 3. Generator's Name and Mailing Address 1000 17th and 18th St Denver CO 80202 303-270-3000 | | | | 5. Generating Location (if different) University of Minnesota Research Institute North West of 17th and 18th St Denver CO 80202 303-270-3000 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste Services Corporation 1000 17th and 18th St Denver CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td></td> <td></td> </tr> </table> | | No. | Type | | |
| No. | Type | | | | | | | | |
| | | | | | | | | | |
| a. Waste Sol | | CO 07459673-1514 | | <table border="1"> <tr> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>1-Yards</td> <td>Yards</td> </tr> </table> | | 19. Total Quantity | 20. Unit Wt/Vol | 1-Yards | Yards |
| 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | |
| 1-Yards | Yards | | | | | | | | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 8 30 97 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 8 30 97 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

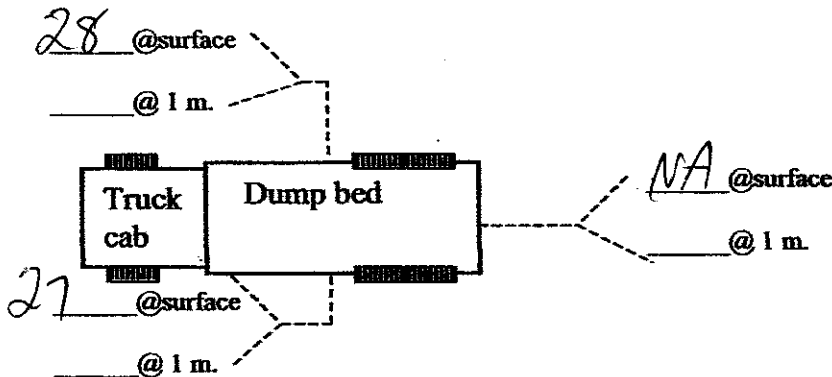
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1527 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

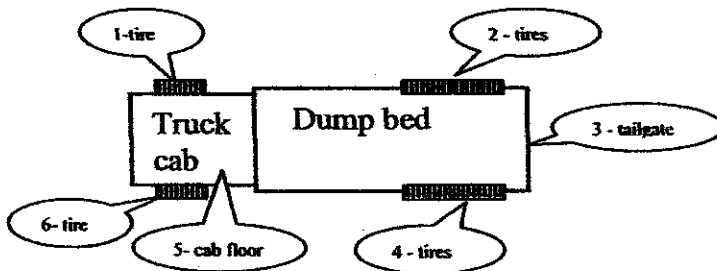
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592024

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1600 Blue Is Rd Golden, CO 80401 303-277-0908 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Lincoln Golden, CO 80401 303-277-0908 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 3030 Hwy 102 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Name Soil | | 2018707504 1511115 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | Signature <i>[Signature]</i> | | Month Day Year 8 20 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Dennis M. [unclear] | | Signature <i>[Signature]</i> | | Month Day Year 8 20 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515353

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 558783 | 0000 |
| WEIGHMASTER | | |
| B000056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 30 August 2007 | | 3:46 pm |
| DATE OUT | | TIME OUT |
| 30 August 2007 | | 3:46 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592024 | | |

Gross Weight 78,800.00 lb
 Tare Weight 34,400.00 lb Inbound -
 Net Weight 44,400.00 lb 22.20 TM

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.20 | TN | 90-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0592024

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Pine St Golden, CO 80401 (303) 411-0982 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute 3000 West of 12th and Birch St Golden, CO 80401 (303) 270-1996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Pine St Golden, CO 80401 Allied Waste - Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Sh. | | 100007-07-0001-051010 | | 19. Total Quantity 0 Drums | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | 1 Yards | |
| d. | | | | Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | | | Signature [Signature] Month Day Year 8/20/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Harold [Signature] | | | | Signature Harold [Signature] Month Day Year 8/20/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

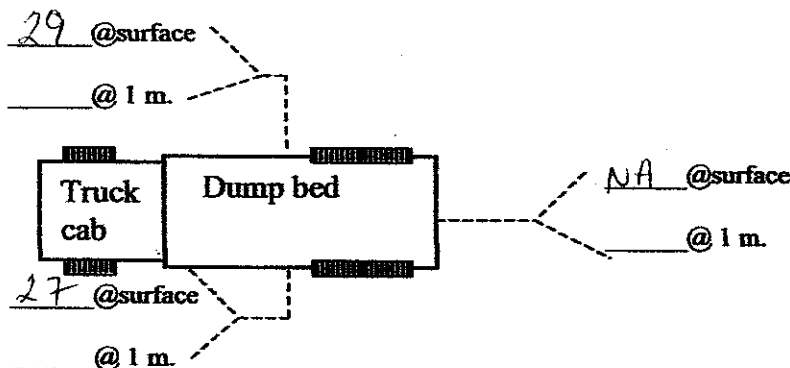
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1535 Surveyed by: C Hicks J Matheson
 Trucking Company: Griewe Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

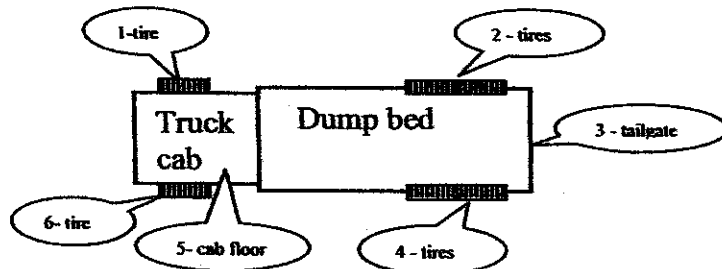
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592012

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|----|--|---------|--------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-0946 | | | | 5. Generating Location (if different) School of Mines Research Institute North West at 12th and Denver Golden, CO 80401 303-273-0946 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td></td> <td>1 Yards</td> <td>1 Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | a. | | 1 Yards | 1 Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| a. | | 1 Yards | 1 Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name H. Beckman | | Signature H. Beckman | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name H. Beckman | | Signature H. Beckman | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 335786 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 3:51 pm |
| DATE OUT 30 August 2007 | | TIME OUT 3:51 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592012 | ORIGIN | |

Gross Weight 76,960.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 41,380.00 lb 20.69 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.69 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE Manab R

Please print or type

| | | | | | | | | |
|--|--|---|---|----------------------------|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1900 Illinois St. Golden, CO 80601-1016 303-273-3000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80601 303-273-2600 | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothill Hwy, 351 Golden, CO 80601-1016 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Harm Soil | | CO 017 070002 YS 1101F | | | | Yrands | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benjamin | | | | Signature [Signature] | | Month 6 | Day 20 | Year 01 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name H. R. | | | | Signature [Signature] | | Month 6 | Day 20 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name H. R. | | | | Signature [Signature] | | Month 8 | Day 30 | Year 07 |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

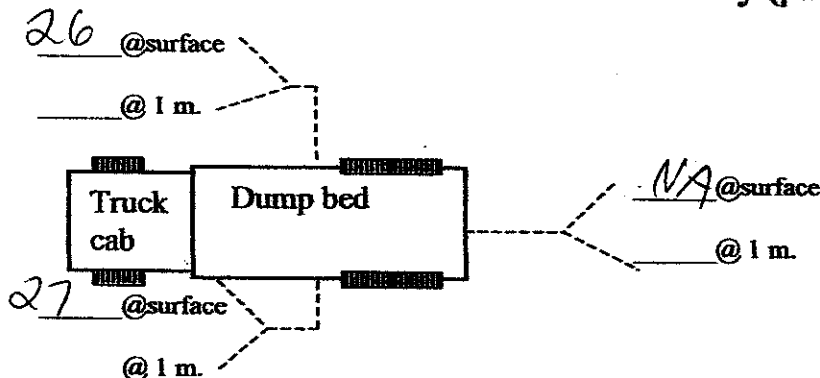
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1542 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

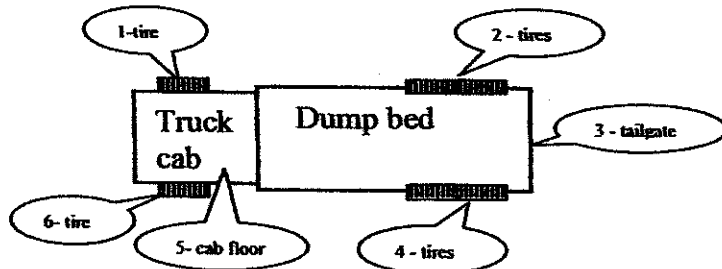
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592013

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1570 Birch St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1570 Birch St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Name: Soda | | CO-07-020001-5511515 | | 16 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Erickson | | Signature: [Signature] | | Month: 8 Day: 23 Year: 2007 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Mike Murray | | Signature: [Signature] | | Month: 8 Day: 23 Year: 2007 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | Signature: | | Month: Day: Year: | |

GENERATOR'S COPY

COM000033

515403

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960-870
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|---------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588791 | 0000 |
| WEIGHMASTER | | |
| 000056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 30 August 2007 | | 3:54 pm |
| DATE OUT | | TIME OUT |
| 30 August 2007 | | 04:56 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572013 | | |

Gross Weight 82,030.00 lb
Tare Weight 34,260.00 lb
Net Weight 47,760.00 lb 23.88 TN

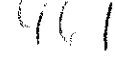
Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.88 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE M. J. [Signature]



0592013

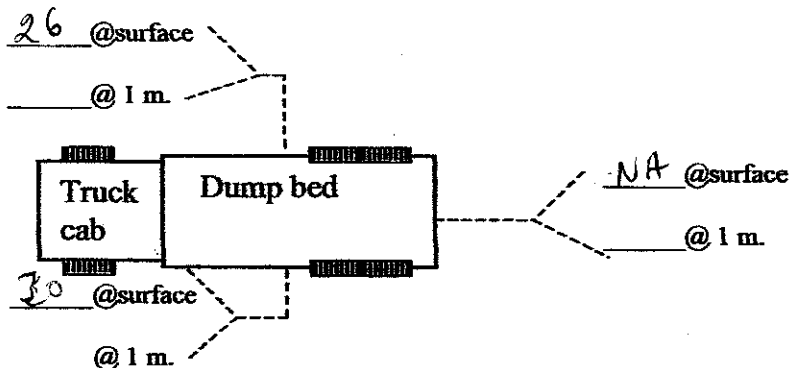
| | | | | | | | | | | | |
|--|---|--|--------------------------|--|--|------------------------------------|--|--------------------------------|-------------------------|-----------|-----------|
| GENERATOR | 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| | 3. Generator's Name and Mailing Address 1500 Union St Boulder, CO 80401 303-440-5000 | | | | 5. Generating Location (if different) University of Mines Research Institute North West of 12th and Puchisi Boulder, CO 80401 303-440-3686 | | | | | | |
| | 4. Phone () | | | | 6. Phone () | | | | | | |
| | 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| | 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| | 13. Designated T/S/D Facility Name and Site Address 1500 Union St Boulder, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| | 16. Waste Shipping Name and Description a. None | | | 17. Allied Waste Approval # and Exp. Date AW-07-0002-011915 | | 18. Containers No. Type 15 4 | | 19. Total Quantity 0 Pounds | 20. Unit Wt/Vol Tons | | |
| | b. | | | | | | | | | | |
| | c. | | | | | | | | | | |
| | d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Blahman | | | | | Signature [Signature] | | | Month 8 | Day 10 | Year 2007 | |
| TRANSPORTER | 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| | Printed/Typed Name Mike Murray | | | | | Signature [Signature] | | | Month 8 | Day 10 | Year 2007 |
| | 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| T/S/D FACILITY | Printed/Typed Name | | | | | Signature | | | Month | Day | Year |
| | 26. Discrepancy Indication Space | | | | | | | | | | |
| | 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month | Day | Year | |

CGM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1555 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

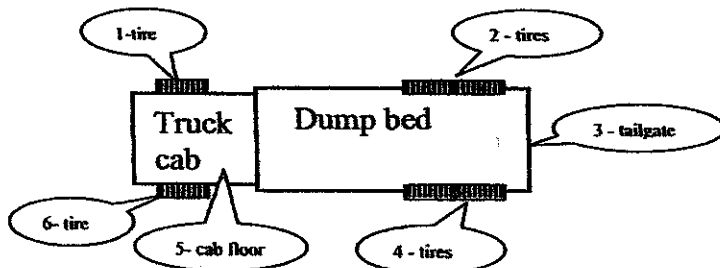
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592014

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Blaine St Denver CO 80202 303-273-3886 | | | | 5. Generating Location (if different) School of Mines Research Institute 14th West of 12th and Grant St Golden CO 80401 303-273-3886 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Blaine St Denver CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Shrapnel | | 001-147-070803 10-11-916 | | 19. Total Quantity 11 Drums | |
| b. | | | | 20. Unit 11 Drums | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Proctor | | | | Signature [Signature] Month Day Year 8 20 98 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 8 20 98 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

315408

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET ES6776 | GRID 0000 |
| WEIGHMASTER #500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 4:11 pm |
| DATE OUT 30 August 2007 | | TIME OUT 4:11 pm |
| VEHICLE YS11915 | | ROLL OFF |
| REFERENCE 592014 | ORIGIN | |

Gross Weight 79,440.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 42,860.00 lb 21.43 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.43 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



ALLIED WASTE



NON-HAZARDOUS WASTE MANIFEST

0592014

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3398 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3398 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Protonics Lab-301 8000 Hwy 92 Golden, CO ACCOUNT # 5602615 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Slurry Soil | | CO L67 670903 Y611915 | | 19. Total Quantity 0 Drums 0 Gallons 7-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Torres | | Signature | | Month Day Year 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #2

COM000033

8/30/07 P.1e B

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|------|
| Griever 8 | 8/30/07 | 0700 | 0717 | 18 cy | 80.4 |
| Murray 461 | | 0700 | 0724 | | 80.3 |
| Griever 23 | | 0700 | 0732 | | 80.8 |
| Murray 96 | | 0700 | 0737 | | 76.9 |
| Griever 12 | | 0700 | 0744 | | 82.9 |
| Griever 24 | | 0700 | 0752 | | 81.1 |
| JD 04 | | 0710 | 0758 | | 75.9 |
| Collazo 13 | | 0715 | 0805 | | 80.3 |
| Ruiz 95 | | 0715 | 0811 | | 76.9 |
| JD 01 | | 0715 | 0818 | | 79.3 |
| Marquez 961 | | 0720 | 0826 | | 78.1 |
| Griever 8 | | 0825 | 0830 | | 81.7 |
| Murray 461 | | 0830 | 0837 | | 81.9 |
| Griever 23 | | 0835 | 0845 | | 82.1 |
| Marquez 96 | | 0845 | 0854 | | 76.7 |
| Griever 12 | | 0854 | 0901 | | 80.7 |
| Griever 24 | | 0900 | 0907 | | 80.4 |
| JD 04 | | 0915 | 0921 | | 76.8 |
| Collazo 13 | | 0921 | 0926 | | 81.9 |
| Ruiz 95 | ✓ | 0925 | 0932 | ✓ | 78.5 |

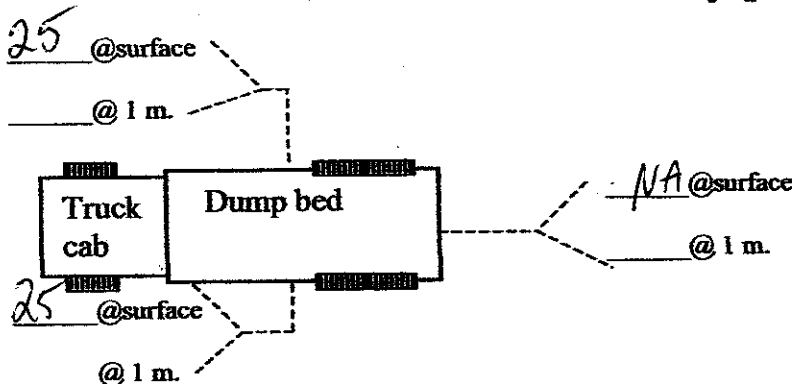
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|------|
| Marquez 961 | 8/30/07 | 0935 | 0945 | 18 cy | 78.8 |
| JD01 | | 0935 | 0950 | | 78.9 |
| Griever 8 | | 0940 | 0956 | | 81.2 |
| Murray 461 | | 0955 | 1003 | | 80.9 |
| Griever 12 | | 1002 | 1009 | | 81.1 |
| Griever 23 | | 1009 | 1015 | | 82.9 |
| Marquez 96 | | 1015 | 1020 | | 76.6 |
| Griever 24 | | 1020 | 1027 | | 82.7 |
| JD04 | | 1027 | 1034 | | 77.8 |
| Collazo 13 | | 1034 | 1042 | | 82.2 |
| Ruiz 95 | | 1042 | 1048 | | 78.8 |
| Marquez 961 | | 1055 | 1110 | | 80.9 |
| JD01 | | 1100 | 1115 | | 80.5 |
| Griever 8 | | 1110 | 1122 | | 83.4 |
| Griever 23 | | 1120 | 1131 | | 84.5 |
| Griever 24 | | 1131 | 1136 | | 84.4 |
| Murray 461 | | 1135 | 1144 | | 83.2 |
| Marquez 96 | | 1144 | 1149 | | 79.5 |
| JD04 | | 1149 | 1200 | | 78.1 |
| Callazo 13 | ✓ | 1200 | 1208 | ✓ | 84.3 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0717 Surveyed by: C. Hicks J. Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

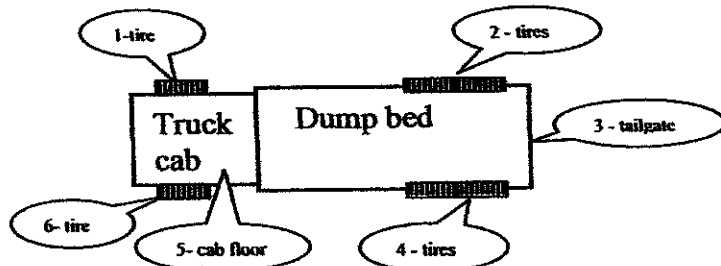
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592061

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address NORTHWEST SCHOOL OF NINE RESEARCH INSTITUTE 1500 Wards St Golden, CO 80401 303-270-1400 | | | 5. Generating Location (if different) NORTHWEST SCHOOL OF NINE RESEARCH INSTITUTE North West of 12th and Birch St Golden, CO 80401 303-270-1400 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address NORTHWEST SCHOOL OF NINE RESEARCH INSTITUTE 1500 Wards St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North School | | 20147-077908 YS14315 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Yards | | | | | |
| 20. Unit T-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bankman | | | | Signature [Signature] | |
| | | | | Month Day Year 12 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | |
| | | | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

515063

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555403 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 7:37 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 7:37 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592061 | | |

Contract: Y511915

Gross Weight 80,420.00 lb
 Tare Weight 36,540.00 lb Inbound --
 Net Weight 43,880.00 lb 21.94 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.94 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592061

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Cincinnati, OH 45201 513-271-1666 | | | | 5. Generating Location (if different) University School of Mines Research Institute North West of 10th and Union St Cincinnati, OH 45201 513-271-1908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Illinois St Cincinnati, OH 45201 513-271-1666 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Haz | | 2010/07/27/008/1511315 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Yards | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. [Signature] | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature [Signature] | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

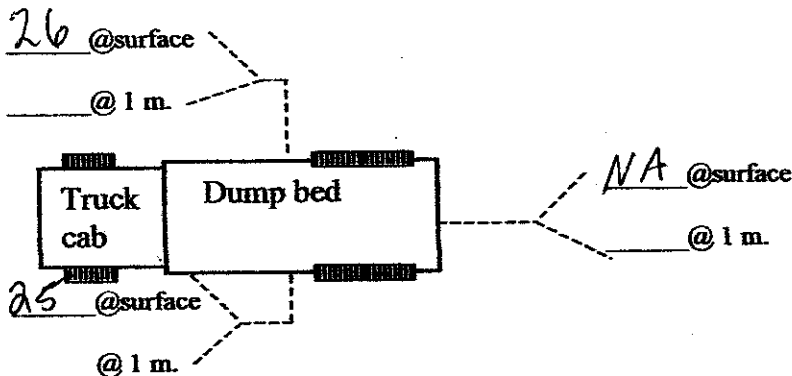
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0724 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

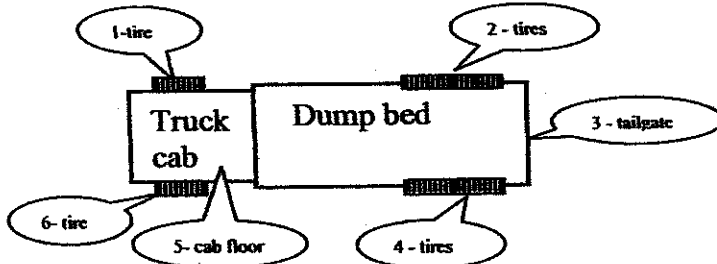
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592060

461

Please print or type.

| | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|------------------------|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-0040 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0040 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden, CO 80401 303-273-0040 | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity |
| | | | | | No. Type | | 20. Unit Wt/Vol |
| a. None | | | 021871700091211915 | | 12 4 | | Y Yards |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Berman | | | | Signature | | Month Day Year 5 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month Day Year 5 30 07 | |
| Printed/Typed Name Mike Murray | | | | Signature | | Month Day Year 5 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month Day Year | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

513088

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 538471 | GRID 0000 |
| WEIGHMASTER 8900056 Barbara Jo E | | |
| DATE IN 20 August 2007 | | TIME IN 7:45 am |
| DATE OUT 30 August 2007 | | TIME OUT 7:45 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE | ORIGIN | |

Gross Weight 80,500.00 lb
 Tare Weight 34,260.00 lb Inbound -
 Net Weight 46,040.00 lb 23.02 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.02 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592060

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 P... Golden, CO 80401 303-273-3888 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Lincoln Golden, CO 80401 303-273-3888 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 2500 11th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Shavings | | Allied Waste Approval # 0511415 | | 18 1 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Cubic Yards | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murphy | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

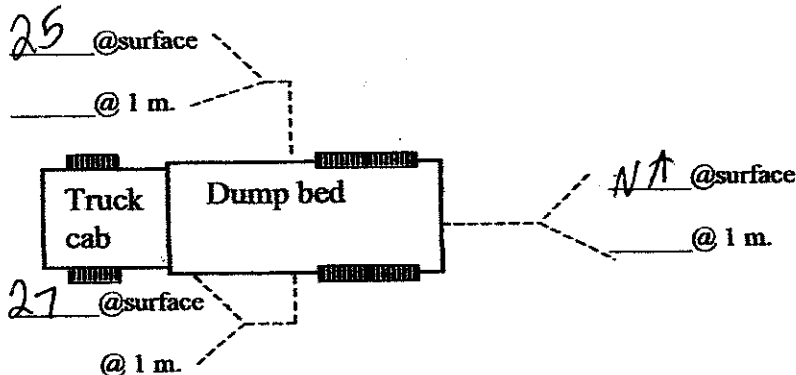
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0732 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

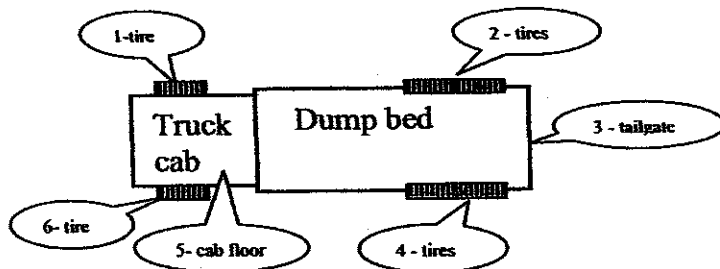
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592059

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 8th St. Garden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 W. 8th St. Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 2010020000 1511215 | | 19. Total Quantity 7 Yards | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bertram | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PIELAN | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

GENERATOR'S COPY

COM000033

825071

FORT HILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 588473 | | 0000 | |
| WEIGHMASTER | | | | | |
| BSC0056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 30 August 2007 | | | 7:49 am | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 7:49 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 572059 | | | | | |

Gross Weight 80,820.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 45,720.00 lb 22.86 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.86 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0592059

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1921 Idaho St Golden, CO 80401 303-273-3006 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West at 12th and Birch St. Golden, CO 80401 303-273-3006 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1921 Idaho St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Sol | | 001A7070009 Y51615 | | 1 Year 1 Unit | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

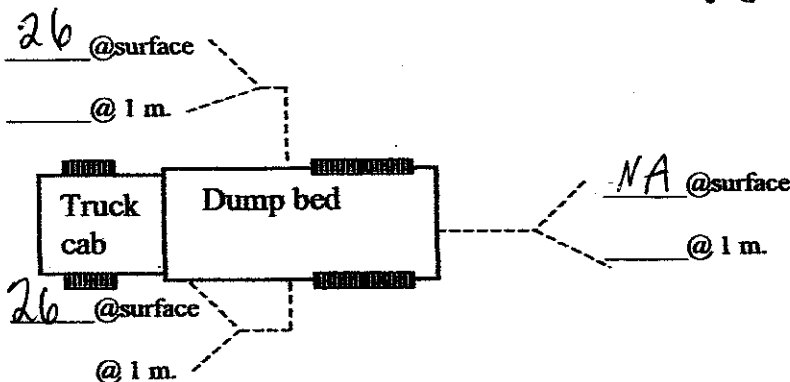
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0737 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

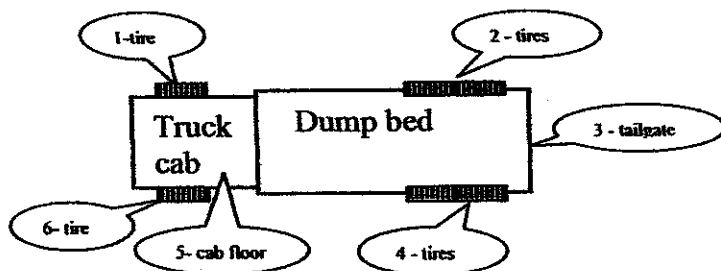
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|-----------------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592058

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Greeley, CO 80631 303-271-4600 | | | | 5. Generating Location (if different from 3) North School of Mines Research Institute North West of 12th and Birch St. Greeley, CO 80601 303-271-3890 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 W. 1st St. Greeley, CO 80631 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. North School | | 00107-006X0-01/1915 | | 1-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Buchanan | | | | 1/30/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Luna | | | | 5/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | Signature | | Month Day Year | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515075

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588477 | 0000 |
| WEIGHMASTER | | |
| 8800056 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 7:56 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 7:56 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572058 | | |

Gross Weight 76,820.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 40,240.00 lb 20.17 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



76

NON-HAZARDOUS WASTE MANIFEST

0592058

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|---|--|--|-----|------|--------------------|-----------------|--|--|--------|-------|
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Greeley, CO 80631 (970) 773-3096 | | | 5. Generating Location (if different) School of Mines Research Institute 11th West of 12th and Pech St Greeley, CO 80631 (970) 773-3096 | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Greeley, CO | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| a. 15.000 | | 001217000000000000 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>15.000</td> <td>Yards</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 15.000 | Yards |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | |
| | | 15.000 | Yards | | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month Day Year 1 30 04 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Month Day Year 1 30 04 | | | | | | | | | |
| Printed/Typed Name Fernando [Signature] | | | | Signature [Signature] | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Month Day Year | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | |

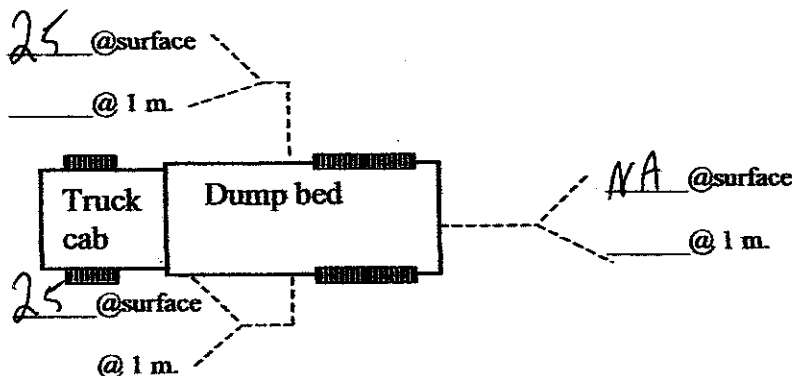
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0744 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

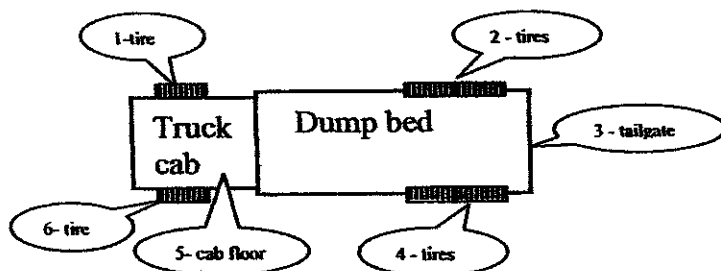
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|-----------------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592057

Please print or type.

| | | | | | | | |
|--|--|---|--|----------------------------|--|-------------------------------|------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3090 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3090 | | | | |
| 4. Phone () 303-273-3090 | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name G... .. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Iron Sulfide b. c. d. | | 17. Allied Waste Approval # and Exp. Date GOLDEN/PPZ08 YS11215 | | 18. Containers | | 19. Total Quantity 7 Yards | 20. Unit Tons |
| | | | | No. Type | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515079

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558421 | 0000 |
| WEIGHMASTER | | |
| 5500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 8:00 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 8:00 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592057 | | |

Gross Weight 81,120.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 43,420.00 lb 21.71 TM

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.71 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592057

Please print or type.

| | | | | | | | | | | | |
|--|--|--|--|---|--|---------------------|--|-----------------|--|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name Globe (Rocky Mts) | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8300 Hwy 21 Golden, CO ACCOUNT # 991003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00107670006 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | No. Type | | 0. Drums 0. Gallons | | | | | |
| | | | | 13 | | 14-Yards | | Tons | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] | | Month 8 | | Day 30 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month 8 | | Day 30 | | Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month | | Day | | Year | |

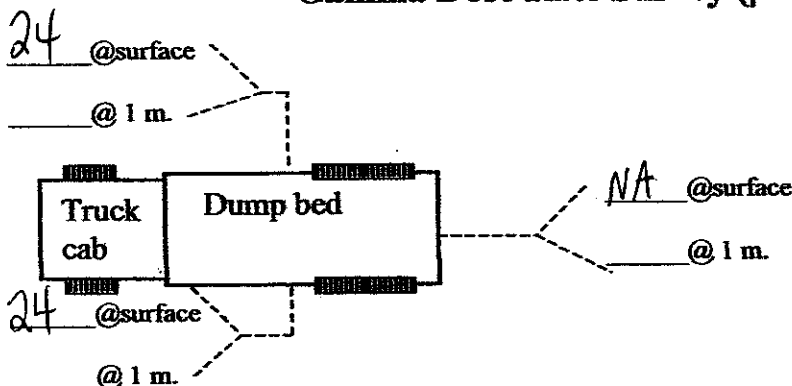
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0752 Surveyed by: C Hicks J Matheson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10 mrem/hr, survey is complete.)

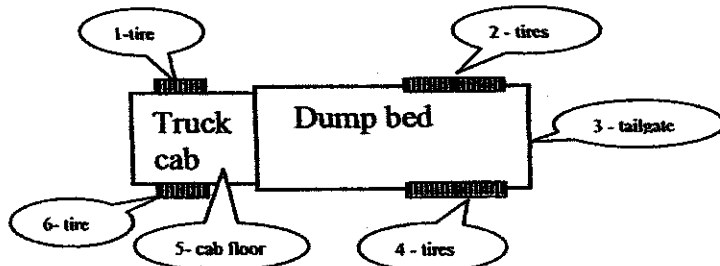
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



0592056

| | | | | | | | | | | |
|--|--|--------------------------|--|--|--|----------------------------|--|---------------------------------------|-----------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Hazardous Waste Research Institute 4500 Wilbur St. Tulsa, OK 74101 203-775-3980 | | | | 5. Generating Location (if different) Hazardous Waste Research Institute North West of 12th and Dinwiddie St. Tulsa, OK 74101 203-775-3980 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Hazardous Waste Research Institute 4500 Wilbur St. Tulsa, OK 74101 | | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Steam Sol b. c. d. | | | | 17. Allied Waste Approval # and Exp. Date 091270706037511915 | | 18. Containers | | 19. Total Quantity 2.0 Cubic Yards | 20. Unit Cub Yards | |
| | | | | | | No. Type 18 Y | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | | | Month 7 | Day 30 | Year 02 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | | | Month 08 | Day 30 | Year 02 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |

COM000033

515084

FOOTHILLER LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | EBG486 | 0000 |
| WEIGHMASTER | | |
| K500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 8:11 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 8:11 am | |
| VEHICLE | ROLL OFF | |
| YB11915 | | |
| REFERENCE | ORIGIN | |
| 892056 | | |

Gross Weight 82,860.00 lb
 Tare Weight 37,200.00 lb
 net Weight 45,660.00 lb 22.63 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.63 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

KERS



NON-HAZARDOUS WASTE MANIFEST

0592056

Please print or type.

| | | | | | | | |
|--|--|--|--|--|-----------|--|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Main St Garden, CO 80101 303 775-1660 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 120 th and Birch St Garden, CO 80101 303 275-3500 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address PACIFIC RAIL Garden, CO A 200001 #1000000 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Storm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date 01/01/2005 01/19/15 | | 18. Containers | | 19. Total Quantity C.Yards 6 Yards | 20. Unit Wt/Vol Tons |
| | | | | No. | Type Y | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month Day Year 12/30/12 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] | | Month Day Year 08/30/12 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

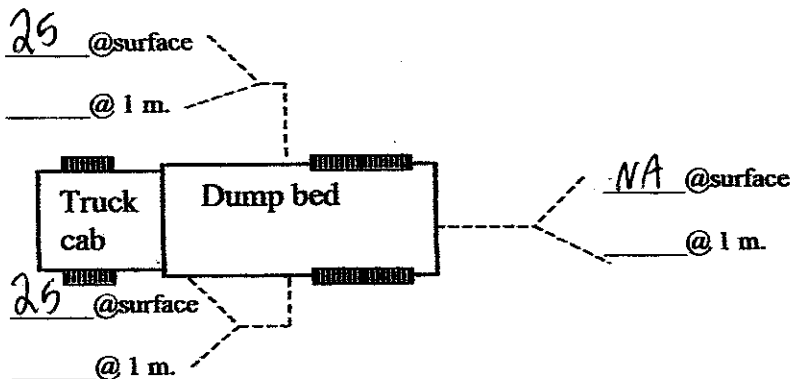
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0758 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

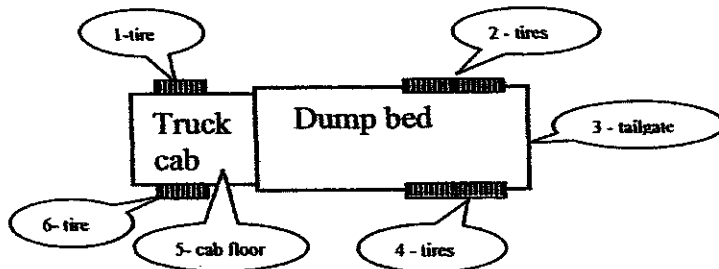
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592055

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 W. 1st St Golden, CO 80401 303-273-0000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0000 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1700 W. 1st St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | CO 007-0300 Y511315 | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benjamin | | | | 12 30 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Sept 10 2001 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

8250380

FOOTHILLS LANDFILL
8900 HIGHWAY 95
GOLDEN
CO
760600
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 588470 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 30 August 2007 | | | 8:15 am | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 8:19 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 592055 | | | | | |

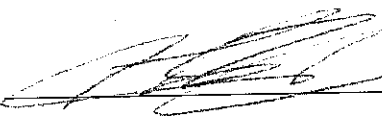
Gross Weight 75,920.00 lb
Tare Weight 35,640.00 lb
Net Weight 40,280.00 lb 20.14 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.14 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE  8-30-07



NON-HAZARDOUS WASTE MANIFEST

0592055

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 W. 1st St. Golden, CO 80401 303-273-3000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 E. 1st Ave Golden, CO 80401 | | 14. US EPA ID Number | | 16. Containers | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Non-Hazardous Waste | | CO 107 00000 Y514815 | | Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benham | | | | 8 30 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Santora Vargos | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

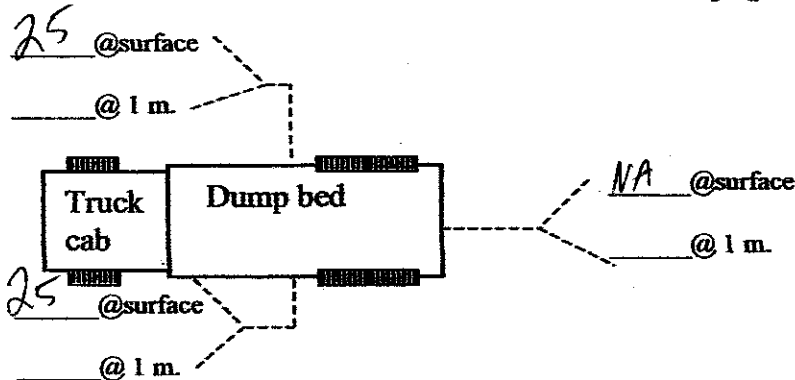
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0805 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: Collazo 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

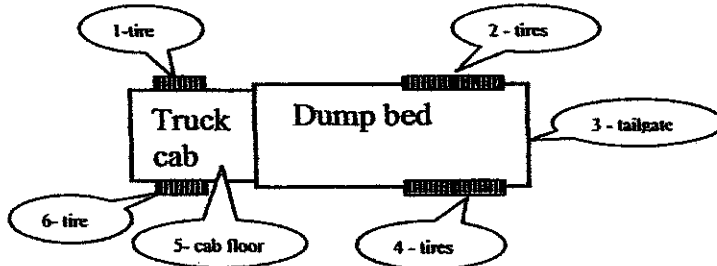
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592054

13

Please print or type.

| | | | | | | | |
|--|--|---|---|----------------------------|------|-------------------------------|--------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Haver St Golden, CO 80401 303-273-3400 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3800 | | | | |
| 4. Phone () | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Haver St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Iron Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date 001011-0000015/12/16 | | 18. Containers | | 19. Total Quantity 7 Yards | 20. Unit Wt/Vol 1.1 tons |
| | | | | No. | Type | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Buckner | | | | Signature | | Month Day Year 08/30/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Michael Angelo Lopez | | | | Signature | | Month Day Year 08/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515093

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80606
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 55847E | 0000 |
| WEIGHMASTER | | |
| 6800054 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 3:25 PM | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 3:25 PM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 552054 | | |

Gross Weight 80,340.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 44,640.00 lb 22.32 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.32 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592054

13

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 157 Main St Middletown, CT 06457 203 275-3548 | | | 5. Generating Location (if different) North West of 12th and Dorch Middletown, CT 06457 203 275-3548 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 157 Main St Middletown, CT 06457 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. New Sol | | 0010204008 Y511616 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Yards | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bush | | | | Signature [Signature] | |
| | | | | Month Day Year 12/30/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Dale Lopez | | | | Signature [Signature] | |
| | | | | Month Day Year 08/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

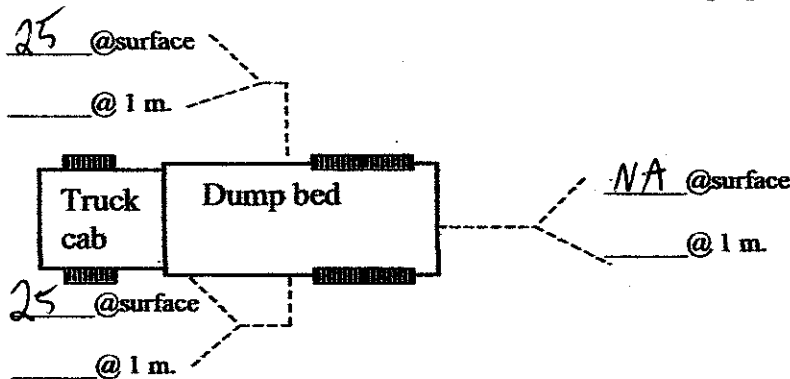
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0811 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: Ruiz 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 $\mu\text{rem/hr}$)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 $\mu\text{rem/hr}$)
 10 mrem/hr at 1 m (10,000 $\mu\text{rem/hr}$)
 (If surface is <10mrem/hr, survey is complete.)

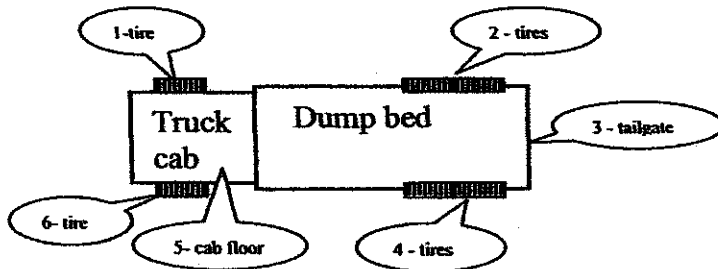
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 $\mu\text{rem/hr}$ (<0.05 mrem) | 0 |
| 50-149 $\mu\text{rem/hr}$ (0.05-0.15 mrem) | 0.1 |
| 150-249 $\mu\text{rem/hr}$ (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592053

Please print or type.

| | | | | | | | |
|--|--|--|--|----------------------------|------|--------------------|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 1st St Golden, CO 80401 303-273-0956 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Grand Golden, CO 80401 303-273-0908 | | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Falcon, CO 80725 1200 Hwy 91 Golden, CO 80401 (Allied Waste Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Iron Ore b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00167 07/08 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit |
| | | | | No. | Type | Cu Yards | Tons |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Printed/Typed Name: Steve Benham Signature: [Signature] Month: 12 Day: 30 Year: 07 | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials Printed/Typed Name: [Signature] Signature: [Signature] Month: 12 Day: 30 Year: 07 | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials Printed/Typed Name: [Signature] Signature: [Signature] Month: Day: Year: | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) Printed/Typed Name: Signature: Month: Day: Year: | | | | | | | |

GENERATOR'S COPY

COM000033

015-35

FOOTHILLS LANDFILL
8900 HIGHWAY 93
SOLIEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588497 | 0000 |
| WEIGHMASTER | | |
| 1000054 Barbara Jo B | | |
| DATE IN | | TIME IN |
| 30 August 2007 | | 8:33 am |
| DATE OUT | | TIME OUT |
| 30 August 2007 | | 8:30 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572053 | | |

Gross Weight 76,900.00 lb
Tare Weight 36,980.00 lb
Net Weight 39,920.00 lb 19.96 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.96 | TN | SW-COHT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0592053

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1110 (Reno) St Golden, CO 80401 303-275-3000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-275-3000 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 1110 (Reno) St | | 303-275-3000 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Y-Yards | | | | | |
| 20. Unit Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | | | Signature [Signature] Month Day Year 12 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 12 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

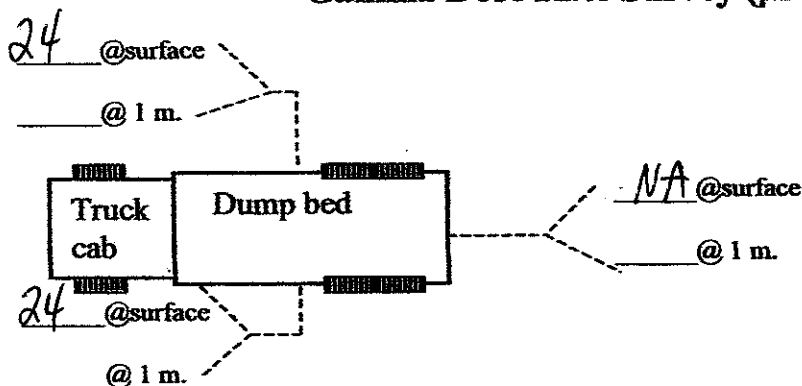
TRANSPORTER #1

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0818 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD061

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

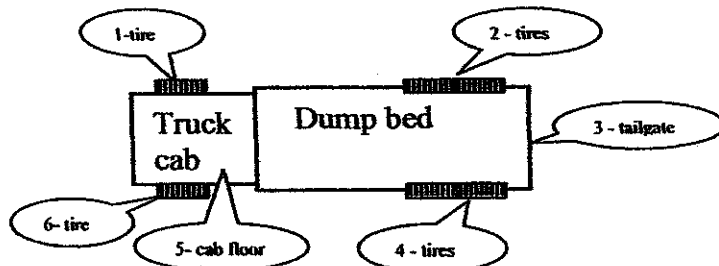
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592042

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1100 Benson St Golden, CO 80401 303-273-3948 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch Golden, CO 80401 303-273-3948 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10701 Hwy 30 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North Box | | GC 167 PRODUCE 12/19/15 | | 19. Total Quantity 16 drums | |
| b. | | | | 20. Unit Wt/Vol 1 Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | Signature | | Month Day Year 12 30 15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name M. Conda | | Signature | | Month Day Year 12 30 15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name M. Conda | | Signature | | Month Day Year 12 30 15 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

316038

FOOTHILLS LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
806603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 538479 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8500054 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 30 August 2007 | | | 8:46 am | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 8:46 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 572042 | | | | | |

Gross Weight 79,260.00 lb
Tare Weight 35,580.00 lb
Net Weight 43,680.00 lb 21.84 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.84 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE Manole R

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
|--|--|---|--|--|--|
| 3. Generator's Name and Mailing Address 1000 Wilson St Cedar Rapids, IA 52401 319-773-3890 | | | | 5. Generating Location (if different) Cedar Rapids School of Mines Research Institute North West of 12th and Buckle Cedar Rapids, IA 52401 319-773-3890 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Cedar Rapids School of Mines Research Institute 1000 Wilson St Cedar Rapids, IA 52401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description a. Soda Sol | | 19. Total Quantity 1000 | | 20. Unit Vol | |
| b. | | c. | | d. | |
| 21. Additional Descriptions for Materials Listed Above | | 22. Special Handling Instructions and Additional Information | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name Steve Benham | | Signature [Signature] | | Month Day Year 10 30 00 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature [Signature] | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature [Signature] | | Month Day Year | |
| 26. Discrepancy Indication Space | | 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |

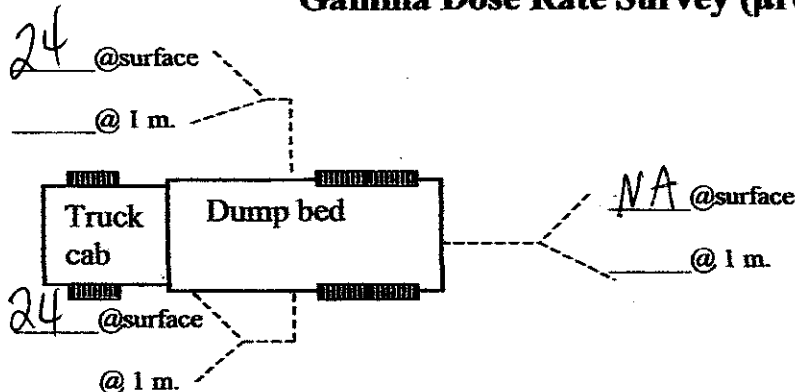
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0826 Surveyed by: CHicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

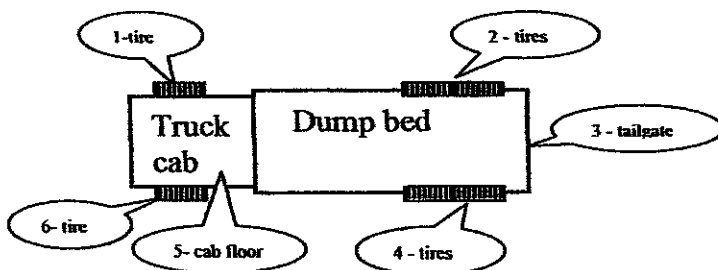
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

961
0592043

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Alameda St. Golden, CO 80401 303-273-0898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 10th and Lincoln St Golden, CO 80401 303-273-0898 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Alameda St. Golden, CO 80401 (Phone: 303-273-0898) # 1500 Alameda St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | 21. Additional Descriptions for Materials Listed Above | |
| | | | | 22. Special Handling Instructions and Additional Information | |
| | | | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benkman | | [Signature] | | 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

QOM000033

CONFIDENTIAL 151295

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555500 | 0000 |
| WEIGHMASTER | | |
| 0000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 01:30 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 01:50 am | |
| VEHICLE | ROLL OFF | |
| 7E11215 | | |
| REFERENCE | ORIGIN | |
| 5924043 | | |

| | | | |
|--------------|-----------|----|-----------|
| Gross Weight | 78,140.00 | Lb | |
| Tare Weight | 34,400.00 | Lb | Inbound - |
| Net Weight | 43,740.00 | Lb | 21.87 Tn |

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.87 | TN | SUB-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|-------------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

961
0592043

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|-----------------|---|--|---|--|--------------------|-----------------|--------|------|
| 3. Generator's Name and Mailing Address 1000 S. 1st St. Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3000 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Fort Collins, CO Highway 33 Fort Collins, CO 80501 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td></td> <td></td> </tr> </table> | | No. | Type | | |
| No. | Type | | | | | | | | |
| | | | | | | | | | |
| a. Horn Soil | | 102187 9700001501315 | | <table border="1"> <tr> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>1.0000</td> <td>Tons</td> </tr> </table> | | 19. Total Quantity | 20. Unit Wt/Vol | 1.0000 | Tons |
| 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | |
| 1.0000 | Tons | | | | | | | | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 30 Year 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 30 Year 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | |

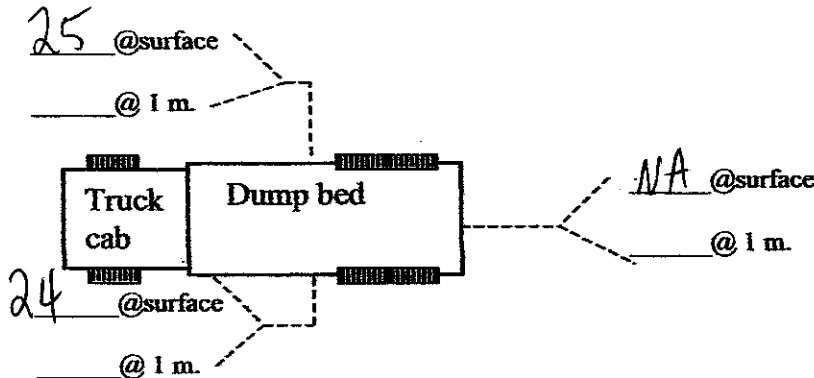
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0830 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 7

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

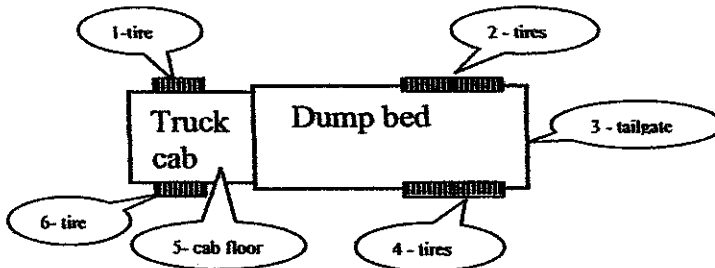
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



0392044

Please print or type

GENERATOR'S COPY

COM000031

515105

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y311915

| | | |
|----------------------------|------------------|---------------------|
| SITE 01 | TICKET 288505 | GRID 0000 |
| WEIGHMASTER | | |
| 4600056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 8:53 am |
| DATE OUT 30 August 2007 | | TIME OUT 8:53 am |
| VEHICLE Y311915 | | ROLL OFF |
| REFERENCE 592044 | ORIGIN | |

Gross Weight 81,680.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 45,140.00 lb 22.57 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592044

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Lincoln St Cotton, CO 80601 303-273-3500 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Finch St Cotton, CO 80601 303-273-3500 | | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Lincoln St Cotton, CO 80601 303-273-3500 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers No. Type | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity 0 Drums 0 Gallons | | 20. Unit Wt/Vol Tons | |
| a. 12.0000 | | 1.67 27000000000000 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brown | | | | 08 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

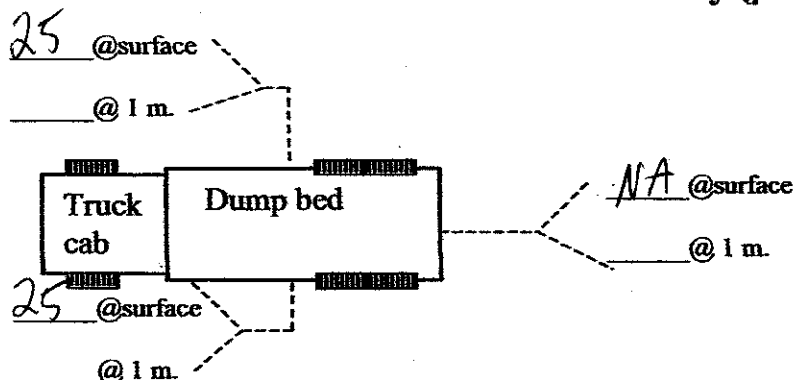
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0837 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

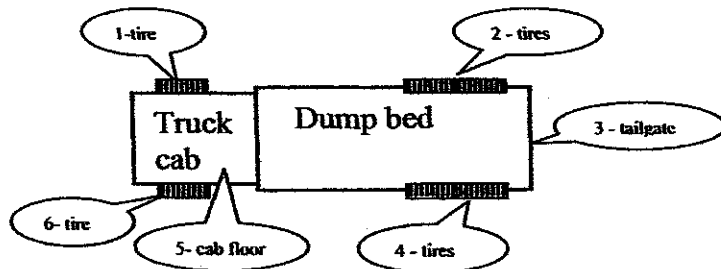
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592051

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Main St Golden, CO 80401 303-273-3000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothill Landfill 2000 1/2 Ave. SE Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Metal | | CO 167 07/04/15-12/15 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 casks | | | | | |
| 20. Unit WT/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

515108

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558508 | 0000 |
| WEIGHMASTER | | |
| ISO7054 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 8:58 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 8:58 am | |
| VEHICLE | ROLL OFF | |
| Y311915 | | |
| REFERENCE | ORIGIN | |
| 572051 | | |

Contract: Y311915

Gross Weight 82,100.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 47,840.00 lb 23.92 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.92 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592051

761

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Wilbur St Golden, CO 80401 303-275-3400 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-275-0990 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Proterra Corp 10001 Hwy 50 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Paper Shred | | C-102 070000 11131E | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 2.0000 | | | | | |
| 20. Unit Wt/Vol Cubic Yards | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

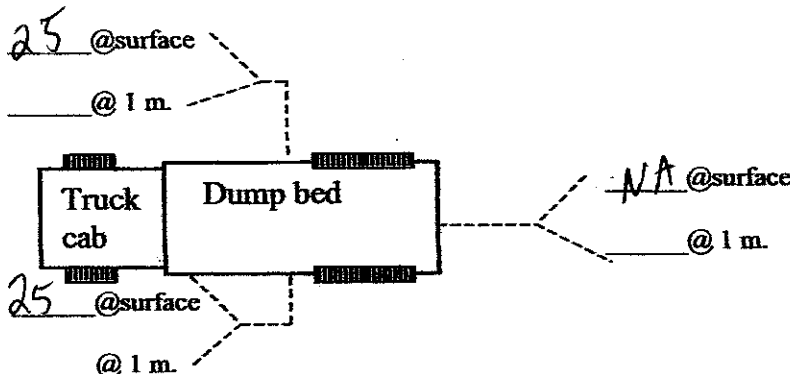
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0845 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

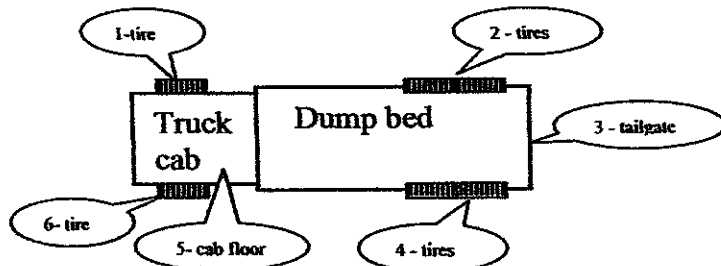
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592050

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-0280 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West at 12th and French St. Golden, CO 80401 303-273-3088 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address T/S/D Facility 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Waste Soil | | 20167 07/09/08 11/11/10 | | 7-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| MARK PHILLAN | | | | 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

515111

FOOTHILL2 LANDFILL
 8900 HIGHWAY 95
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585511 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbera Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 7:05 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 7:05 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572050 | | |

Contract: Y511915

Gross Weight 22,120.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 47,020.00 lb 23.51 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.51 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



23

NON-HAZARDOUS WASTE MANIFEST

0592050

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|---------------------------------|---------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Garden, CO 80101 303-273-5800 | | | | 5. Generating Location (if different) North West of 12th and Lincoln Garden, CO 80101 303-273-5800 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Garden, CO 80101 303-273-5800 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity in Pounds | 20. Unit Wt/Vol in Pounds |
| | | | | No. | Type | | |
| a. Iron Soil | | 001610000000000000 | | | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Benken | | | | Signature [Signature] | | Month Day Year 8/30/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name MARK PHILLAN | | | | Signature [Signature] | | Month Day Year 8/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

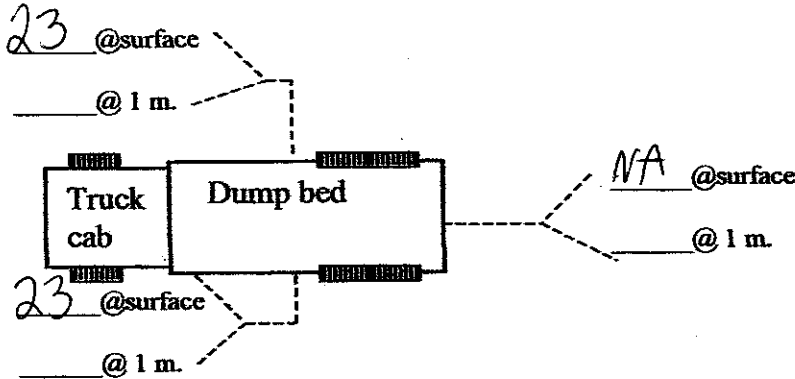
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0854 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

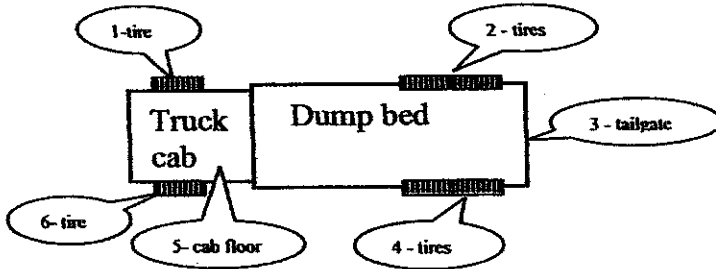
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 4220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592049

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Winger St Olathe, CO 60401 970-275-0006 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 15th and Birch St. Olathe, CO 60401 970-275-0006 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 18700 Hwy 97 Olathe, CO 60401 # 409, 11 (Olathe) School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm. Sol | | CO 07-01000151015 | | 19. Total Quantity 0.000000 Y Yards 2.000000 | |
| b. | | | | 20. Unit Wt/Vol 2.000000 | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Binkman | | [Signature] | | 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Barro | | [Signature] | | 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

0010000033

515117

FOOTHILLS LANDFILL
 8900 HIGHWAY 95
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 535517 | 0000 |
| WEIGHMASTER | | |
| 2500056 Parkway Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 7:14 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 7:14 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572049 | | |

Gross Weight 76,680.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 40,100.00 lb 20.05 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0582049

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 N. Hwy 37 Tampa, FL 33601 303-273-3096 | | | | 5. Generating Location (if different) School of Mines Research Institute 1400 West of 12th and Bristol Tampa, FL 33601 303-273-3096 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 N. Hwy 37 Tampa, FL 33601 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. | | 10/07/02008 10/1/05 | | 19. Total Quantity 0.50000 | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkman | | Signature | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Barrio | | Signature | | Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

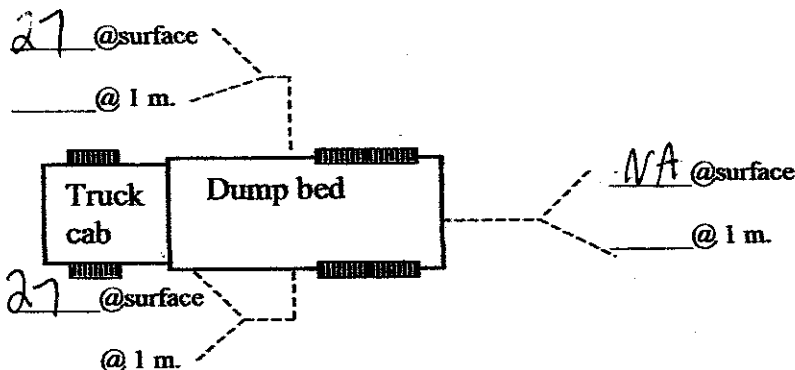
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0901 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

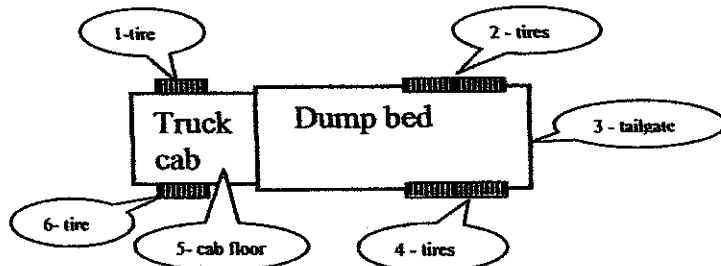
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592048

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-773-3600 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-773-3600 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Green Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 2020 11th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Heavy Metal b. c. d. | | 17. Allied Waste Approval # and Exp. Date 2014-2015 | | 18. Containers No. Type 18 | |
| | | | | 19. Total Quantity 0.00 tons | |
| | | | | 20. Unit Wt/Vol Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 7 30 07 | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 7 30 07 | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1300 ILLINOIS ST
 GOLDEN, CO 80401

Contract# Y511915

12 815222

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556519 | 0000 |
| WEIGHMASTER | | |
| 8300026 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 9:17 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 9:17 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592042 | | |

Gross Weight 80,720.00 lb
 Tare Weight 37,700.00 lb Inbound -
 Net Weight 43,020.00 lb 21.51 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.51 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

12
0592048

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|--------------------------------|--------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1510 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name Green Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 6000 Hwy 93 Golden, CO 80401 (ACCOUNT # 150) (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 15 Drums | 20. Unit Wt/Vol 15 Drums |
| | | | | No. | Type | | |
| a. Normal Soil | | CO L87 070208 Y511315 | | 18 | | Y-Drums | 1-Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

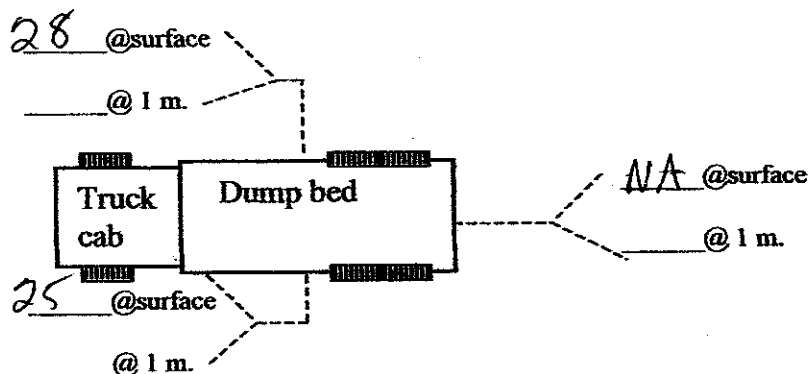
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0907 Surveyed by: C. Hicks J. Matheson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

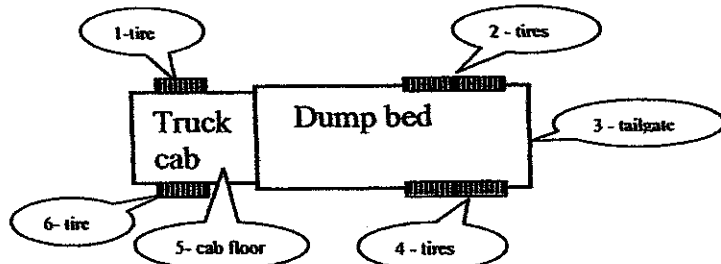
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0532032

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Union St Golden, CO 80401 303-274-3800 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-272-3000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Joe Grive Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address MAYCO Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Rock | | 07107470308 1511015 | | 19. Total Quantity No. Type 18 Y | |
| b. | | | | 19. Total Quantity No. Type | |
| c. | | | | 19. Total Quantity No. Type | |
| d. | | | | 19. Total Quantity No. Type | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Barker | | | | Signature Steve Barker Month Day Year 8/30/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature Ken Shannon Month Day Year 08/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 92
 GOLDEN
 CO
 80503
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

34 515123

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 558523 | GRID 0000 |
| WEIGHMASTER 3500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 9:25 am |
| DATE OUT 30 August 2007 | | TIME OUT 7:25 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 572032 | ORIGIN | |

Gross Weight 30,360.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 43,160.00 lb 21.53 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.53 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

KERS



NON-HAZARDOUS WASTE MANIFEST

0592032

24

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1200 West St. Garden City, NY 11530 516-271-4000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 17th and Brent St. Garden City, NY 11530 516-271-4000 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 4300 Hwy 97 Garden City, NY 11530 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Heavy Oil | | 17. Allied Waste Approval # and Exp. Date K11071-5239-511815 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | Quantity | Wt/Vol | |
| | | | | 18 | Y | Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Joe Grieve | | | | Signature | | Month 12 | Day 30 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | Month 10 | Day 30 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

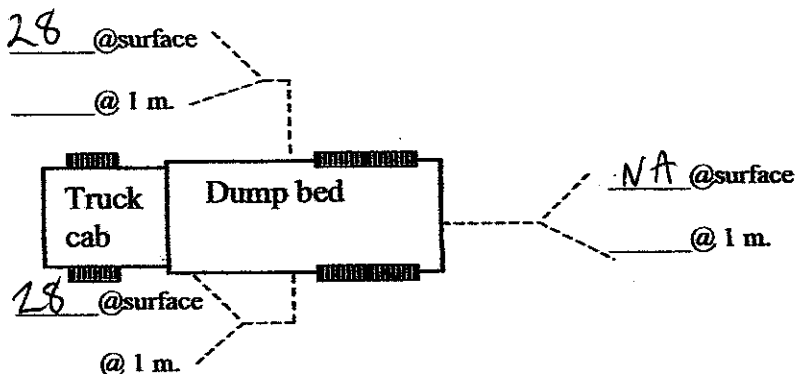
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 8921 Surveyed by: C Hicks J Matheson
 Trucking Company: Grieve Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

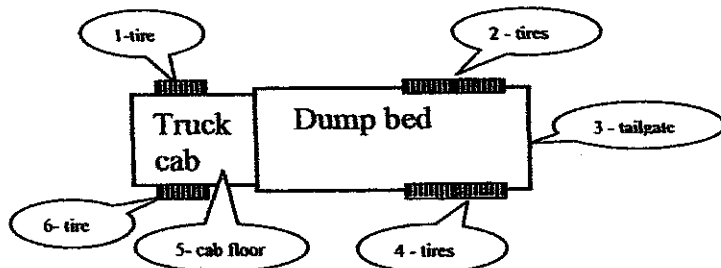
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592033

Please print or type.

| | | | | | | | | |
|--|--|--|--|--|--|---------------------------------------|---------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Platte Pl Golden, CO 80601 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80601 303-273-3000 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 2000 Hwy 20 Golden, CO 80601 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Inert Soil | | 17. Allied Waste Approval # and Exp. Date CO147 070006 (511515) | | 18. Containers | | 19. Total Quantity 0.1 Cubic Yards | 20. Unit Wt/Vol 1-Tons | |
| | | | | No. Type | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brannen | | | | Signature [Signature] | | Month 6 | Day 30 | Year 06 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature [Signature] | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

515129

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO

980603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|--------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 788528 | GRID 0000 |
| WEIGHMASTER ES000056 Barbara Jo E | | |
| DATE IN 20 August 2007 | | TIME IN 9:40 am |
| DATE OUT 30 August 2007 | | TIME OUT 9:40 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 592003 | ORIGIN | |

00 Gross Weight 76,820.00 lb
Tare Weight 35,640.00 lb
Net Weight 41,180.00 lb 20.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

[Signature] 9-30-07





NON-HAZARDOUS WASTE MANIFEST

0592033

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1511 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and English Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 17300 E. Harvard Ave 80001 May 00 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | 00167 (70000) / 11/16/16 | | 19. Total Quantity 1.00 tons | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | | | Signature [Signature] | |
| Month 12 | | | | Day 30 | |
| Year 16 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature [Signature] | |
| Month 12 | | | | Day 30 | |
| Year 16 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month | | | | Day | |
| Year | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month | | | | Day | |
| Year | | | | | |

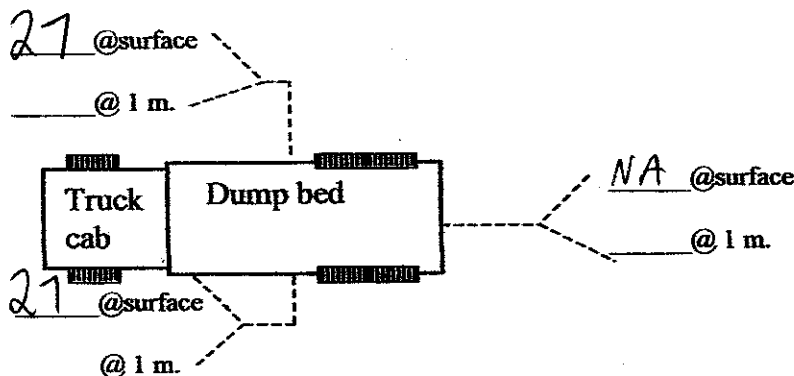
TRANSPORTER #1

CQM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0926 Surveyed by: C Hicks J Matheson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

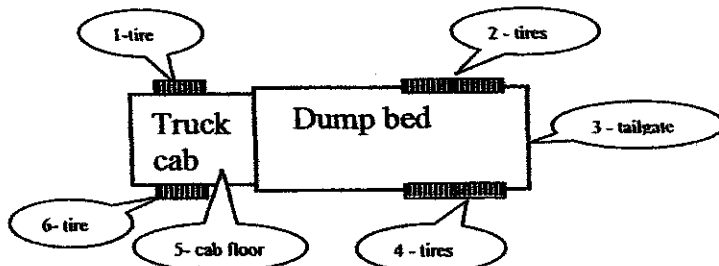
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0643471

Please print or type

| | | | | | | | | | |
|--|--|--------------------------|--|--|----------------------------|----------|--------------------|----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 | | | | | |
| 4. Phone () 303-270-0960 | | | | 6. Phone () 303-270-3090 | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6000 Valley Dr Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Non-hal b. c. d. | | | 17. Allied Waste Approval # and Exp. Date 0010700000-01/19/15 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | | No. | Type | 13 Containers | 13 Yards | |
| | | | | | | 18 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 5 | | Day 30 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Robert Lopez | | | | Signature | | Month 08 | | Day 30 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | Year |

GENERATOR'S COPY

COM000033

515135

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 523532 | GRID 0000 |
| WEIGHMASTER 5600056 Barbara Jo S | | |
| DATE IN 20 August 2007 | | TIME IN 9:50 am |
| DATE OUT 30 August 2007 | | TIME OUT 9:50 am |
| VEHICLE 7511715 | | ROLL OFF |
| REFERENCE 545471 | ORIGIN | |

Gross Weight 81,920.00 lb
 Tare Weight 38,700.00 lb Inbound -
 Net Weight 43,220.00 lb 23.11 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.11 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643471

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Durango St Durango, CO 80401 Phone () 303-273-3066 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and 30th St Durango, CO 80401 Phone () 303-273-3066 | |
| 4. Phone () 303-273-3066 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Durango, CO 80401 School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Iron Soil | | 0016707000 07/05/15 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Yards | | | | | |
| 20. Unit Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brakman | | Signature | | Month Day Year 08 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Alvaro Lopez | | Signature | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

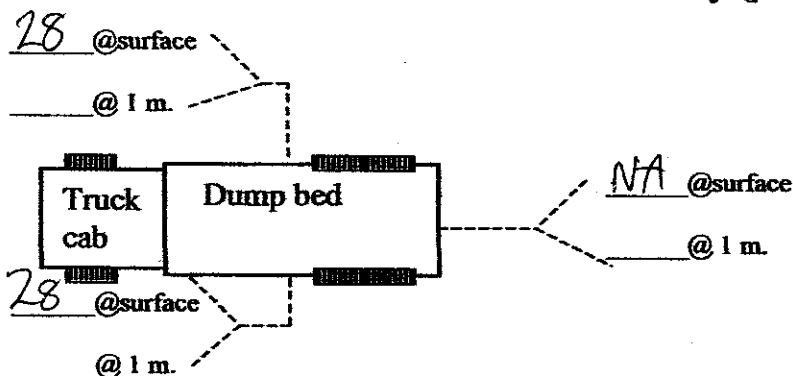
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0932 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

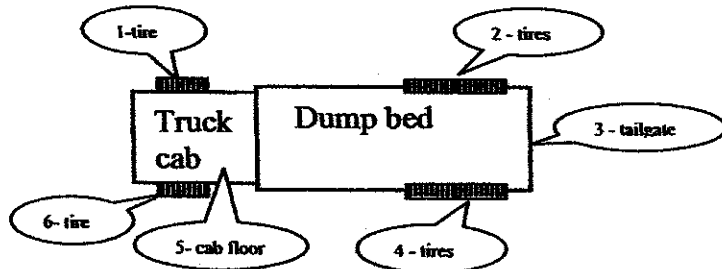
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643472

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1507 1/2 N. 1st St. Golden, CO 80401 303-273-0846 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Clark St Golden, CO 80401 303-273-0800 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1400 W. 10th Ave Golden, CO 80402-1700 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | JO197 020401-011015 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 30 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike | | | | 8 30 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

510134

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80401
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

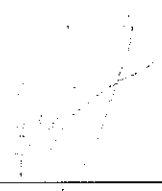
Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 585532 | 0000 |
| WEIGHMASTER | | |
| 2500956 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 30 August 2007 | | 9:48 am |
| DATE OUT | | TIME OUT |
| 30 August 2007 | | 9:48 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 543472 | | |

Gross Weight 78,480.00 lb
Tare Weight 36,980.00 lb
Net Weight 41,500.00 lb 20.75 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.75 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



75

NON-HAZARDOUS WASTE MANIFEST

0643472

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|---|------|---|-----------------|--|--|-----|------|--------------------|-----------------|--|--|--------|--------|--|--|--------|--------|--|--|--------|--------|--|--|--------|--------|
| 3. Generator's Name and Mailing Address 1500 1st St Golden, CO 80401 303-273-1000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1000 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 1st St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Heavy Soil | | CO107 07/05/10-12/10 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td></td> <td></td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td></td> <td></td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td></td> <td></td> <td>0.0000</td> <td>0.0000</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.0000 | 0.0000 | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.0000 | 0.0000 | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.0000 | 0.0000 | | | | | | | | | | | | | | | | | | | | | | |
| | | 0.0000 | 0.0000 | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| Steve Benham | | | | 12 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| Steve Benham | | | | 12 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

TRANSPORTER #1

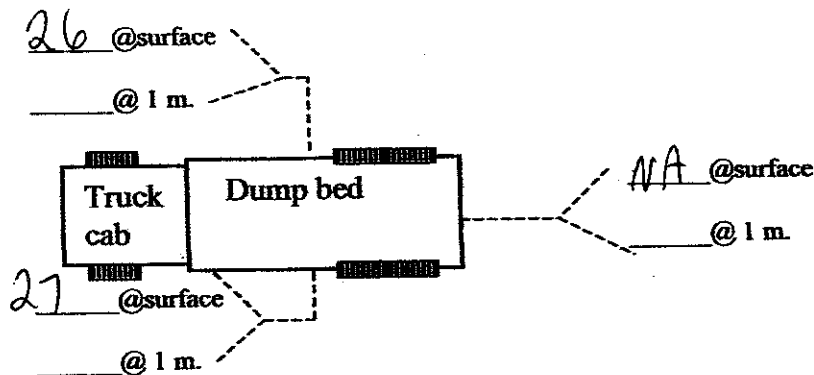
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0945 Surveyed by: C Hicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10 mrem/hr, survey is complete.)

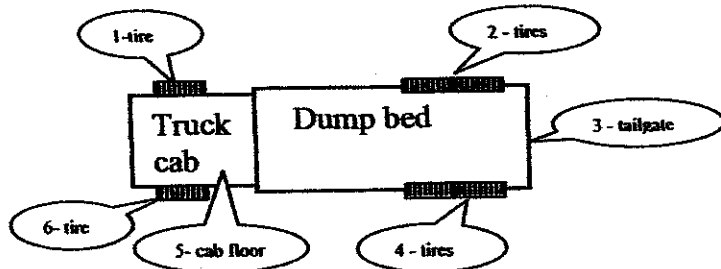
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

961
0643473

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1000 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) North West of 12th and Basin St Golden, CO 80401 303-273-3900 | |
| 4. Phone () 303-273-3900 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Boulder, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | COLE7070001541015 | | 19. Total Quantity 11 Drums | |
| b. | | | | 20. Unit WT/Vol 1-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannen | | | | Signature [Signature] Month 6 Day 30 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

515145

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y51191E

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 388542 | 0000 |
| WEIGHMASTER | | |
| 2500056 Barbara Jo B | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 10:04 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 10:04 am | |
| VEHICLE | ROLL OFF | |
| Y51191E | | |
| REFERENCE | ORIGIN | |
| 643473 | | |

Gross Weight 28,780.00 lb
 Tare Weight 24,400.00 lb
 Net Weight 44,380.00 lb 22.19 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.19 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

A. J.



NON-HAZARDOUS WASTE MANIFEST

0643473

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Black St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3990 | |
| 4. Phone () 303-273-3990 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Black St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Harm Sol | | 00167 070903 1511015 | | 19. Total Quantity 0 Drums 0 Tons | |
| b. | | | | 20. Unit Drums | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beaman | | Signature | | Month Day Year 9 30 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name J. J. Marquez | | Signature | | Month Day Year 9 30 97 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

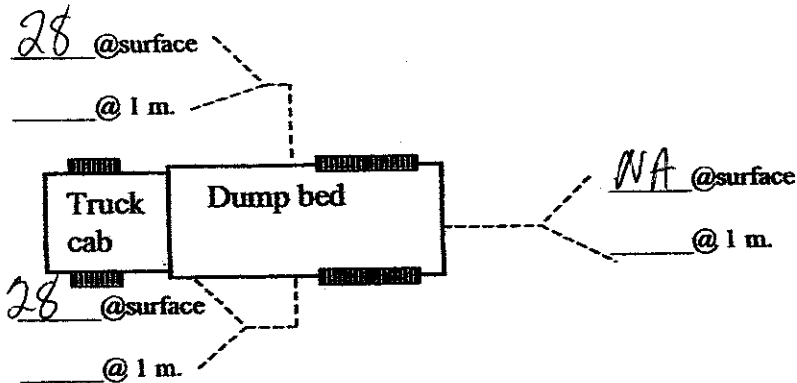
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0950 Surveyed by: C Hicks J Matheon
 Trucking Company: Grieve Truck license plate no. /state: JD01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

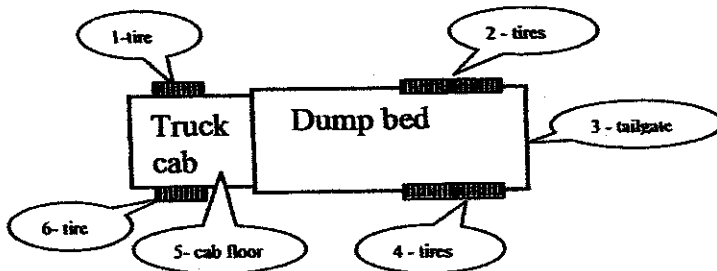
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0643490

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Black St Golden, CO 80401 303-273-1000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Black St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Soil | | 2018770000 11/19/15 | | 19. Total Quantity 0.000000 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beaman | | Signature [Signature] | | Month Day Year 6/30/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Manolo | | Signature [Signature] | | Month Day Year 6/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Manolo | | Signature [Signature] | | Month Day Year 6/30/07 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

315140

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 555546 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 10:12 am |
| DATE OUT 30 August 2007 | | TIME OUT 10:12 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 645460 | ORIGIN | |

Gross Weight 78,940.00 lb
 Tare Weight 35,580.00 lb Inbound -
 Net Weight 43,360.00 lb 21.68 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.68 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE Manolo



NON-HAZARDOUS WASTE MANIFEST

0643420

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1170 Illinois St Golden, CO 80401 303-773-3996 | | | | 5. Generating Location (if different) University of Mines Research Institute North West of 120 and Birch St Golden, CO 80401 303-773-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1170 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Soil | | CONCRETE BRICKS | | 19. Total Quantity 17 yards | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Benken | | Signature: [Signature] | | Month Day Year 6 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Alamo | | Signature: H. R. | | Month Day Year 6 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Alamo | | Signature: H. R. | | Month Day Year 6 30 07 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

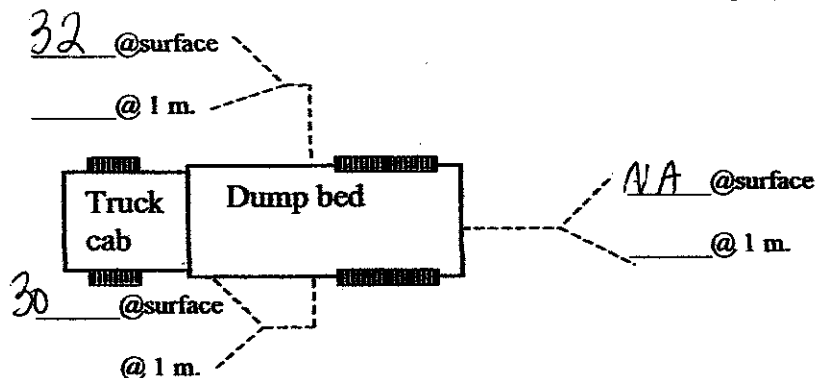
TRANSPORTER #1

©M000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 0956 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

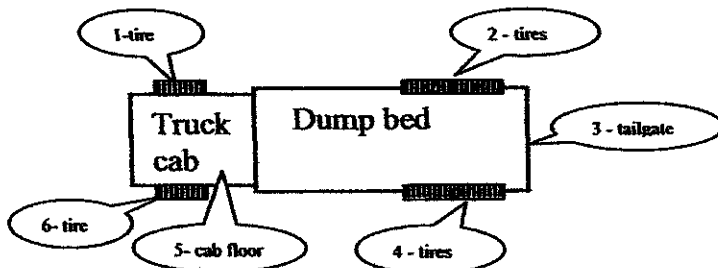
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 5220 | | | | 52200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0643474

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Blaine St Golden, CO 80401 303-273-3600 | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3636 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 May St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Pump Oil | | 1000 May St Golden, CO 80401 | | 7 Drums 7 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. Brown | | | | Signature [Signature] Month Day Year 6 30 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month Day Year 6 30 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

318183

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80401
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|----------------------|--|---------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | E8E8E8E | | 0000 | |
| WEIGHMASTER | | | | | |
| E500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 30 August 2007 | | | 10:16 am | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 10:16 am | | |
| VEHICLE | | | ROLL OFF | | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 643474 | | | | | |

Gross Weight 81,200.00 lb
Tare Weight 36,540.00 lb
Net Weight 44,660.00 lb 22.33 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.33 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



8

NON-HAZARDOUS WASTE MANIFEST

0643474

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6500 Hwy 93 Golden, CO ADDRESSES HEREIN (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L97 070908 1511915 | | 19. Total Quantity 0 Drums 0 Gallons 6 Y-Yards 1 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 30 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 8 30 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

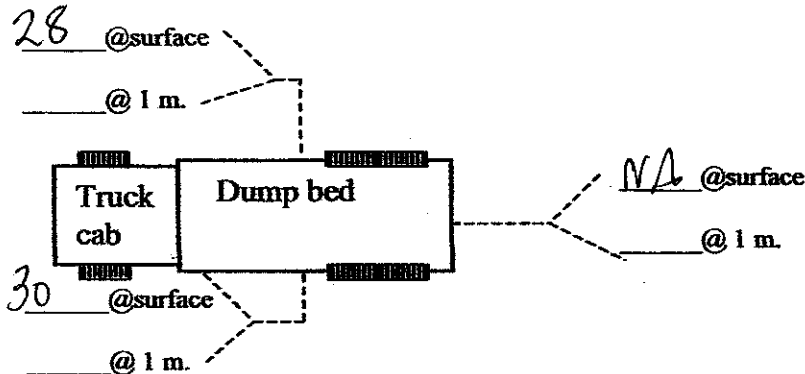
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1003 Surveyed by: C Hicks J Matteson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

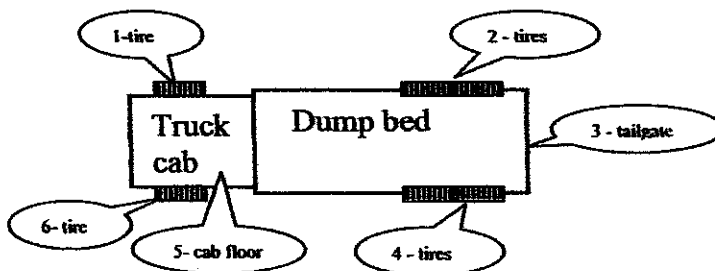
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 6220 | | | | 62200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643475

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|----|---|---------|--------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-1040 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1990 | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Rock Soil | | 00-167-07000-1-1215 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>16</td> <td>4</td> <td>Y-Yards</td> <td>1-Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | 16 | 4 | Y-Yards | 1-Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 4 | Y-Yards | 1-Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Mike Murray | | Signature | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

319158

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 888888 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8800056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 00 August 2007 | | | 10:23 am | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 10:23 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 64-5475 | | | | | |

Gross Weight 80,860.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 46,600.00 lb 23.30 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.30 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE MhM



NON-HAZARDOUS WASTE MANIFEST

0643475

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1777 Wilson St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | |
| 4. Phone () 303-273-3900 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1777 Wilson St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Flamm. Sol. | | 00127001362-000015 | | 16 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 16 Yards | | | | | |
| 20. Unit Wt/Vol 1-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information M. R. M. | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] Month 5 Day 30 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Munn | | | | Signature [Signature] Month 8 Day 30 Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

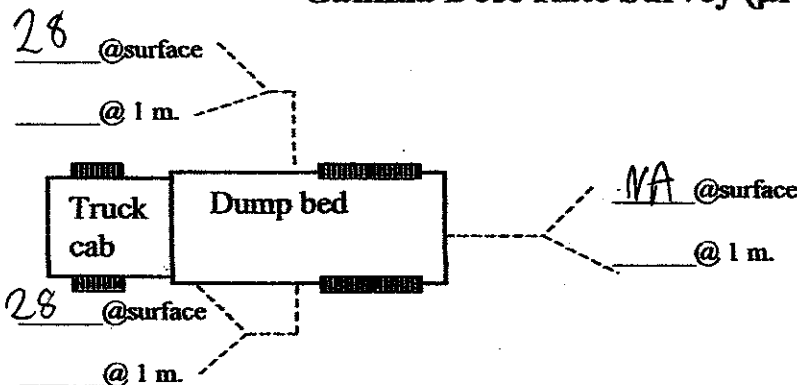
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1009 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

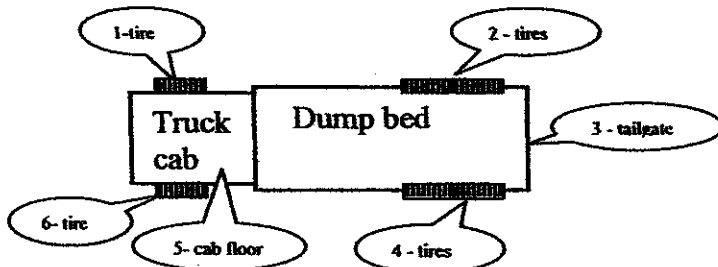
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643476

Please print or type

| | | | | | | | |
|--|--|---|--|--|------|-------------------------------|-------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Main St Golden, CO 80401 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-272-2880 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene Trucking 12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Golden Landfill 6000 Hwy 30 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Iron Sulfide b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 107 07/06/98 511915 | | 18. Containers | | 19. Total Quantity 4 Yards | 20. Unit Wt/Vol Tons |
| | | | | No. | Type | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 1 30 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 1 30 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

12

511915

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 536553 | GRID 0000 |
| WEIGHMASTER 8800056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 10:26 am |
| DATE OUT 30 August 2007 | | TIME OUT 10:26 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643476 | ORIGIN | |

Gross Weight 24,100.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 45,400.00 lb 23.20 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.20 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0643476

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|---|-------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name Greene Trucking 12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 1500 Hwy 80 Golden, CO ACCOUNT # 150073 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0 Drums 0 Gallons | 20. Unit Wt/Vol Gallons | |
| | | | | No. | Type | | | |
| a. Harm Soil | | CO L37 070908 7511915 | | 18 | | 7-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 8 | Day 30 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month 8 | Day 30 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

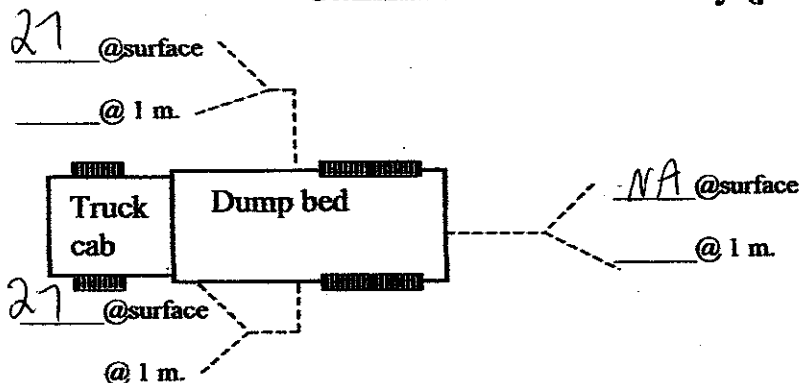
TRANSPORTER #2

CCM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1015 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

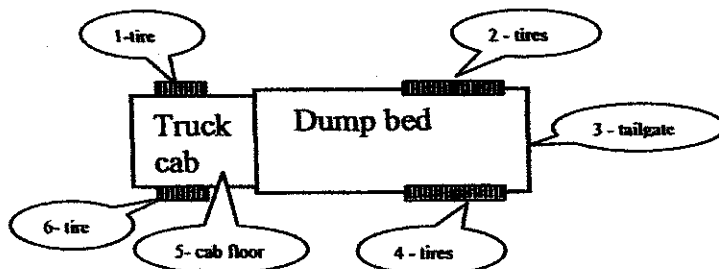
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



23

NON-HAZARDOUS WASTE MANIFEST

0643477

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-271-3506 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-271-3506 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | 21. Additional Descriptions for Materials Listed Above | |
| | | | | 22. Special Handling Instructions and Additional Information | |
| | | | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000083

516182

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588557 | 0000 |
| WEIGHMASTER | | |
| 8000056 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 10:31 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 10:31 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 843477 | | |

Gross Weight 82,860.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 47,760.00 lb 23.88 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.88 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0643477

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1575 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) North West of 12th and Birch St Golden, CO 80401 303-273-3896 | |
| 4. Phone () 303-273-3896 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Cyanide Landfill 3000 Main St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | 2016-03-01/03-31-2016 | | 19. Total Quantity Containers 20. Unit Wt/Vol Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

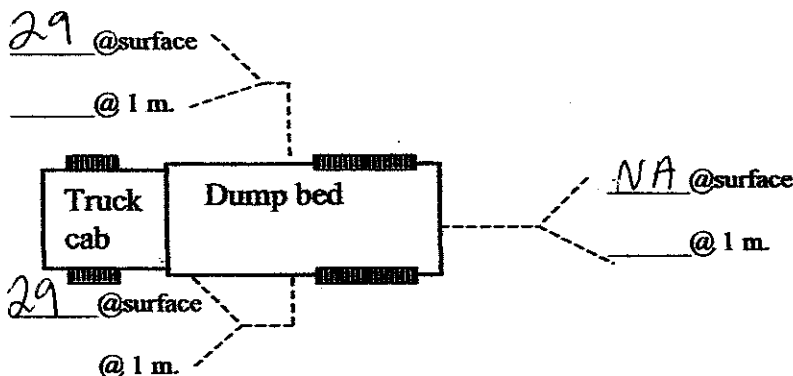
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1020 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

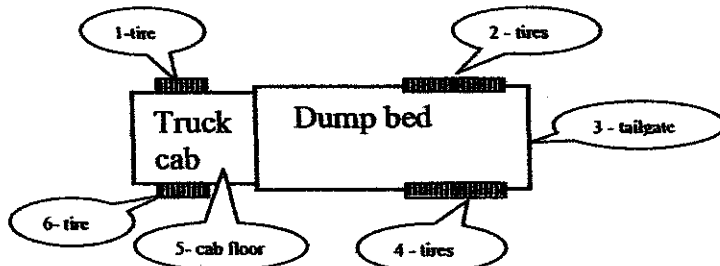
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0643479

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Union St Golden, CO 80401 Phone () 303-273-2000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 Phone () 303-273-2000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Union St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Sol | | 00107 070000 YF 11910 | | 19. Total Quantity Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | Signature [Signature] | | Month Day Year 8 30 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Barra | | Signature [Signature] | | Month Day Year 9 30 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

518135

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 553563 | GRID 0000 |
| WEIGHMASTER IS00056 Barbara Jo E | | |
| DATE IN 30 August 2007 | | TIME IN 10:39 am |
| DATE OUT 30 August 2007 | | TIME OUT 10:39 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 643479 | ORIGIN | |

Gross Weight 72,600.00 lb
 Tare Weight 32,580.00 lb
 Net Weight 40,020.00 lb 20.01 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.01 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0643479

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. | | | | | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brashman | | | | Signature | | Month 8 | Day 30 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Fernando Barra | | | | Signature | | Month 9 | Day 30 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

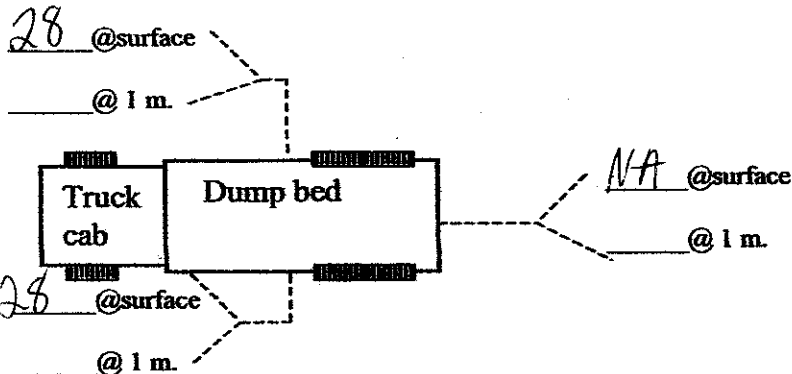
TRANSPORTER #1

CDM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1027 Surveyed by: C Hicks J Mattson
 Trucking Company: Griev Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

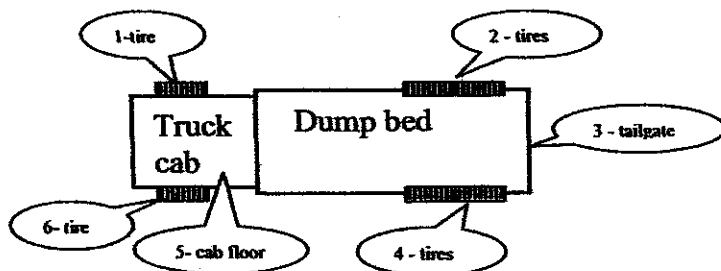
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|-----------------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



24

NON-HAZARDOUS WASTE MANIFEST

0643478

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|--|---|--|-----|------|-----------------------------|----------------------------|-------|---|---------|--------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Lincoln St Golden, CO 80401 703-770-3946 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Dime St Golden, CO 80401 303 273-2800 | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name J De Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Lincoln St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity Drums</th> <th>20. Unit Wt/Vol Ct/Drum</th> </tr> </thead> <tbody> <tr> <td>a. 18</td> <td>Y</td> <td>1-Yards</td> <td>1-Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Ct/Drum | a. 18 | Y | 1-Yards | 1-Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity Drums | 20. Unit Wt/Vol Ct/Drum | | | | | | | | | | | | | | | | | | | | | | |
| a. 18 | Y | 1-Yards | 1-Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | Signature <i>[Signature]</i> | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Kellie Shannon | | Signature <i>[Signature]</i> | | Month Day Year 8 30 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000035

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 315107

| | | |
|----------------------------|------------------|----------------------|
| SITE 01 | TICKET 558545 | GRID 0000 |
| WEIGHMASTER | | |
| 6500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 10:44 am |
| DATE OUT 30 August 2007 | | TIME OUT 10:44 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643478 | ORIGIN | |

Gross Weight 82,680.00 lb
 Tare weight 37,200.00 lb Inbound -
 Net Weight 45,480.00 lb 22.7+ TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.74 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



24

NON-HAZARDOUS WASTE MANIFEST

0643478

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address New Bluffs St Golden, CO 80401 303-275-0050 | | | | 5. Generating Location (if different) New School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-275-0050 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name J De Grieve Trucking | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 13. Designated T/S/D Facility Name and Site Address J De Grieve Trucking 10000 E. 1st Ave. (Golden) #10000 (Golden) School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | 0643478000 12/15/15 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Yards | | | | | |
| 20. Unit Wt/Vol 1 Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bergman | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Keith Shannon | | | | Signature [Signature] Month 08 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

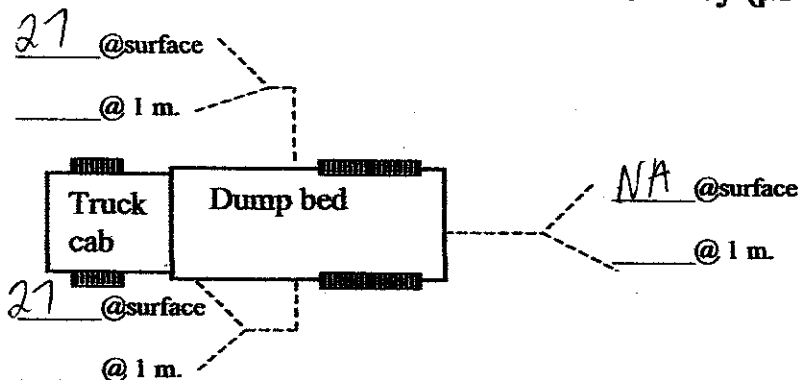
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1034 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

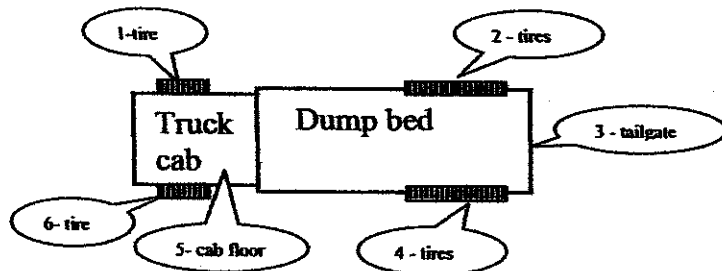
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



04

NON-HAZARDOUS WASTE MANIFEST

0592034

Please print or type.

| | | | | | | | | | | | |
|--|--|---|--|---|--|--------------------|--|--------------|--|------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Garden, CO 80131 303-273-3886 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80131 303-273-3886 | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 2500 Hwy 93 Garden, CO 80131 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Non-Hazard b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00187-0708-01-011015 | | 18. Containers | | 19. Total Quantity | | 20. Unit | | | |
| | | | | No. Type | | Ct. Closures | | Ct. Closures | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve B. B... | | | | Signature | | Month | | Day | | Year | |
| | | | | | | 30 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name Santiago Varg... | | | | Signature | | Month | | Day | | Year | |
| | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

51517E

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
750603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y311915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 388567 | | 0000 | |
| WEIGHMASTER | | | | | |
| 3500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 30 August 2007 | | | 10:51 am | | |
| DATE OUT | | | TIME OUT | | |
| 30 August 2007 | | | 10:51 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y311915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 592034 | | | | | |

Gross Weight 77,820.00 lb
Tare Weight 35,640.00 lb
Net Weight 42,180.00 lb 21.09 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.09 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE [Signature] 8-30-07

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592034

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 E. 1st St. Golden, CO 80401 (303) 273-1000 | | | | 5. Generating Location (if different) University School of Mines Research Institute North Platte Rd. 12th and Lincoln St. Golden, CO 80401 (303) 273-1000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Mountain 1000 E. 1st St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Alum Sol | | 01-11-1995 | | 7 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Estimate | | | | | |
| 20. Unit Wt/Vol Cub Yards | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature [Signature] | |
| | | | | Month Day Year 2 30 95 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santoso Vaysoy | | | | Signature [Signature] | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

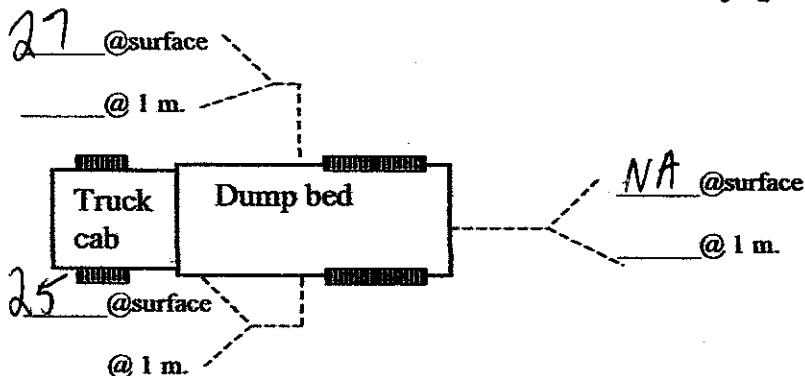
TRANSPORTER #1

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1042 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

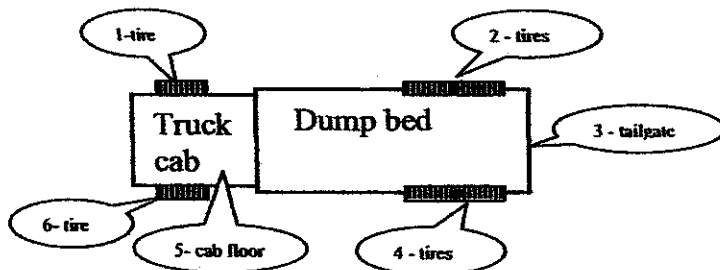
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592035

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1250 Blaine St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Blaine St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address BOK #1 Hwy 80 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Soil | | 03167 07/08/1511315 | | 18 Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 10 Cans | | | | | |
| 20. Unit Wt/Vol Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bralman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

515177

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 804603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 588574 | GRID 0000 |
| WEIGHMASTER 9800056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 11:02 am |
| DATE OUT 30 August 2007 | | TIME OUT 11:02 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592035 | ORIGIN | |

Gross Weight 52,180.00 lb
 Tare Weight 38,700.00 lb
 Net Weight 13,480.00 lb 23.24 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.24 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592035

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 W. 1st St. Casper, WY 82401 (307) 233-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and East 8th Casper, WY 82401 (307) 233-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 W. 1st St. Casper, WY 82401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-hazardous | | 05116107000001015 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| Yards | | Tons | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Buckner | | | | Signature: [Signature] Month: 8 Day: 30 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: 08 Day: 30 Year: 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | |

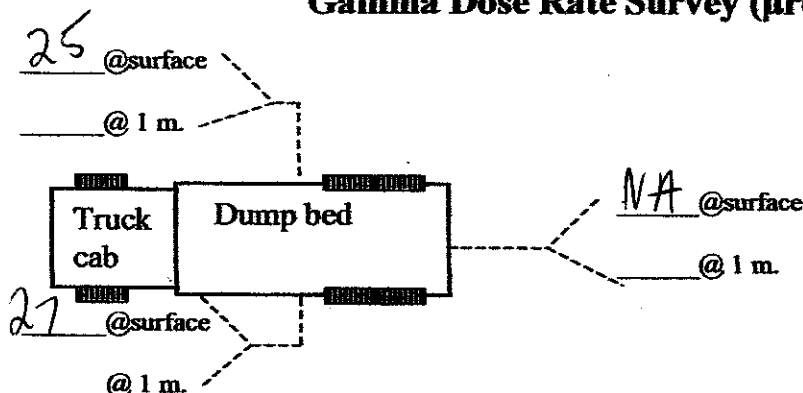
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1048 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

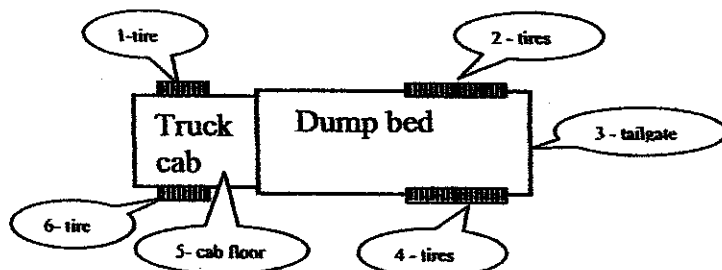
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592036

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Pines St Garden, CO 80401 303-773-3990 | | | | 5. Generating Location (if different) Cuth School of Mines Research Institute North West of 12th and Birch St. Garden, CO 80401 303-773-3990 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Garden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Soil | | 000007 070000 1011015 | | 19. Total Quantity 1 Yards | |
| b. | | | | 20. Unit Wt/Vol 1-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bergman | | | | Signature [Signature] | |
| | | | | Month Day Year 30 21 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Muel [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 3 30 17 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

515180

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511913

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588576 | 0000 |
| WEIGHMASTER | | |
| 3600054 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 11:08 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 11:08 am | |
| VEHICLE | ROLL OFF | |
| Y511913 | | |
| REFERENCE | ORIGIN | |
| 592036 | | |

Gross Weight 75,280.00 lb
 Tare Weight 34,980.00 lb
 Net Weight 41,300.00 lb 20.90 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.90 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



0592066

| | | | | | | | |
|---|--|---------------------------------|---|----------------------------|--------------------|-----------------|--------|
| GENERATOR | 1. Generator's US EPA ID Number | Manifest Document Number | 2. Page 1 of | | | | |
| | 3. Generator's Name and Mailing Address 1800 Blake St. Garden, CO 80401 303-773-9080 | | 5. Generating Location (if different) School of Urban Horticulture North West at 12th and Lincoln Garden, CO 80401 303-773-9080 | | | | |
| | 4. Phone () | | 6. Phone () | | | | |
| | 7. Transporter #1 Company Name | | 8. US EPA ID Number | 9. Transporter #1's Phone | | | |
| | 10. Transporter #2 Company Name | | 11. US EPA ID Number | 12. Transporter #2's Phone | | | |
| | 13. Designated T/S/D Facility Name and Site Address Fountain Valley 1800 Blake St. Garden, CO 80401 | | 14. US EPA ID Number | 15. Facility's Phone | | | |
| TRANSPORTER | 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | 18. Containers | 19. Total Quantity | 20. Unit Wt/Vol | |
| | a. | None Sent | 10/07/02X#4Y511015 | No. | Type | Drums | 4 cans |
| | b. | | | | | | |
| | c. | | | | | | |
| | d. | | | | | | |
| T/S/D FACILITY | 21. Additional Descriptions for Materials Listed Above | | | | | | |
| | 22. Special Handling Instructions and Additional Information | | | | | | |
| | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | |
| | Printed/Typed Name <i>Sue Barker</i> | | Signature <i>[Signature]</i> | | Month | Day | Year |
| TRANSPORTER | 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Month | Day | Year |
| | Printed/Typed Name <i>Muel [unclear]</i> | | Signature <i>[Signature]</i> | | Month | Day | Year |
| | 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Month | Day | Year |
| T/S/D FACILITY | Printed/Typed Name | | Signature | | Month | Day | Year |
| | 26. Discrepancy Indication Space | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name <i>[Signature]</i> | | Signature <i>[Signature]</i> | | Month | Day | Year | |

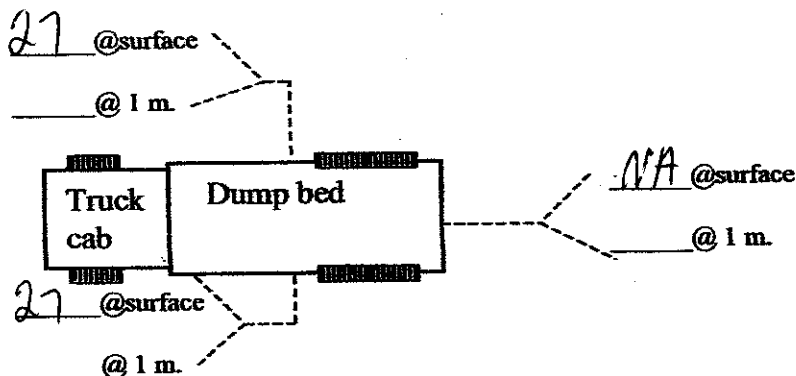
COM000033

TRANSPORTER #1

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1110 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

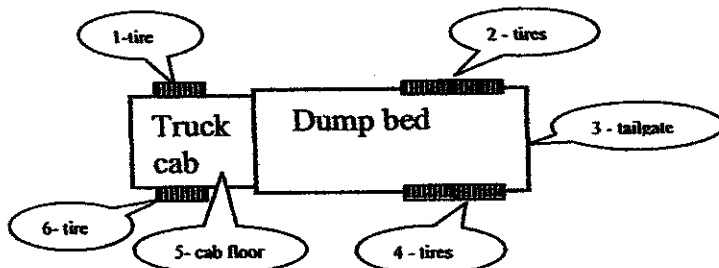
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592047

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 10th St Golden, CO 80401 303-273-1246 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Pecos St Golden, CO 80401 303-273-1600 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 10th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Alum Slud | | CO-07-010001-011015 | | 19. Total Quantity 10 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

\$15457

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 288572 | GRID 0000 |
| WEIGHMASTER 2800055 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 11:31 am |
| DATE OUT 30 August 2007 | | TIME OUT 11:31 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592047 | ORIGIN | |

GC Gross Weight 80,940.00 lb
Tare Weight 34,400.00 lb
net Weight 46,540.00 lb 23.27 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.27 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE A. J.



NON-HAZARDOUS WASTE MANIFEST

0592047

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Catholic School of Health Research Institute 1500 W. 1st St. Golden, CO 80401 Phone () 303-273-3000 | | | | 5. Generating Location (if different) Catholic School of Health Research Institute North West of 12th and Grand Golden, CO 80401 Phone () 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Catholic School of Health Research Institute 1500 W. 1st St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Iron Sulfide | | 303-273-3000 | | 19. Total Quantity Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

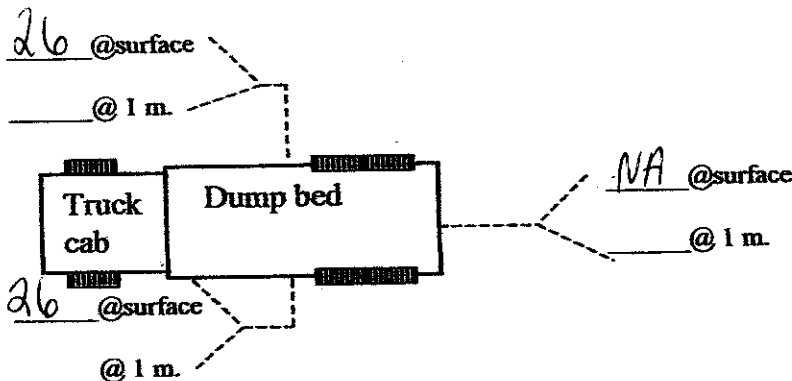
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1115 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

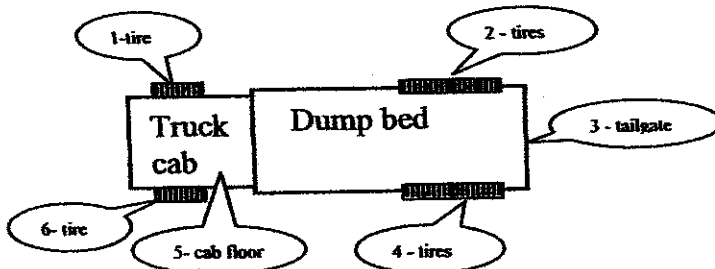
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

01
0592045

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-2000 | | | | 5. Generating Location (if different) North West of 12th and Birch St Golden, CO 80401 303-273-2000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address P.O. Box 12-000 8940 Hwy 50 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Iron Ore | | 001000000000000000 | | 19. Total Quantity 0.000000000000000000 | |
| b. | | | | 20. Unit 0.000000000000000000 | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John | | Signature | | Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John | | Signature | | Month Day Year 8 30 07 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515201

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|--------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 588596 | | 0000 | |
| WEIGHMASTER | | | | | |
| 2000056 Barbara Jo S | | | | | |
| DATE IN | | | | TIME IN | |
| 30 August 2007 | | | | 11:34 am | |
| DATE OUT | | | | TIME OUT | |
| 30 August 2007 | | | | 11:34 am | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | | ORIGIN | | |
| 572045 | | | | | |

OO Gross Weight 80,460.00 lb
 Tare Weight 35,580.00 lb Inbound -
 Net Weight 44,880.00 lb 22.44 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.44 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE Margalo R



NON-HAZARDOUS WASTE MANIFEST

01
0592045

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Pecos St. Durham, CO 80401 303-273-0444 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North Third St. 12th and Durango Durham, CO 80401 303-273-0444 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1000 Pecos St. Durham, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 20. Unit 21. Weight | |
| a. | | | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 8 30 07 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

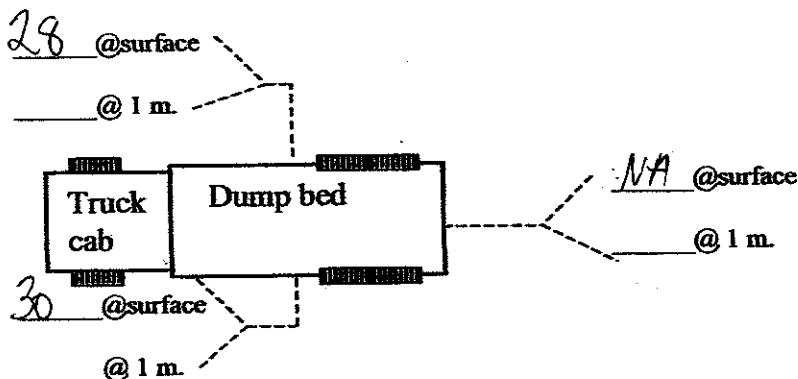
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1122 Surveyed by: C Hicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

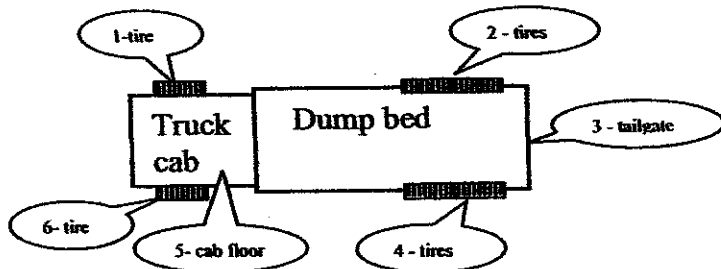
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0582048

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Golden, CO 80401 303-273-3666 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3666 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address PO Box 100 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 10 Yds. 101 | | CO 157 07306 101015 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 10 Yards | | | | | |
| 20. Unit W/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 8 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515210

FOOTHILLS LANDFILL
 8700 HIGHWAY 70
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 506605 | 0000 |
| WEIGHMASTER | | |
| 5500256 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 11:42 am | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 11:42 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572046 | | |

00 Gross Weight 83,380.00 lb
 Tare Weight 36,540.00 lb Inbound -
 Net Weight 46,840.00 lb 23.42 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.42 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592046

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-1998 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Burn Soil | | 101571700001511915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| 0.000000 | | Yards | | Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Buchanan | | | | 08 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

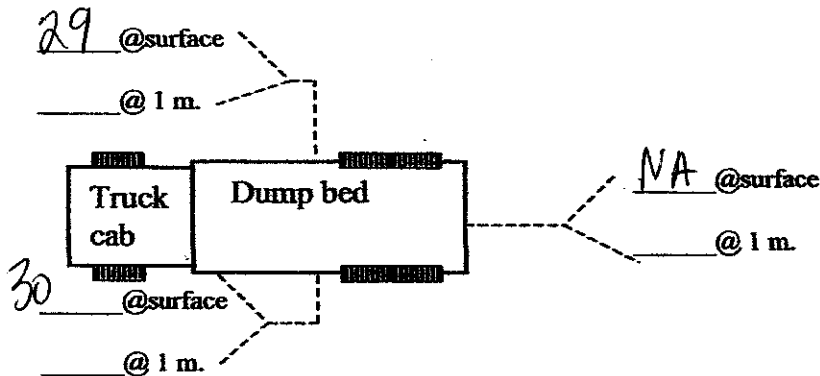
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1131 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

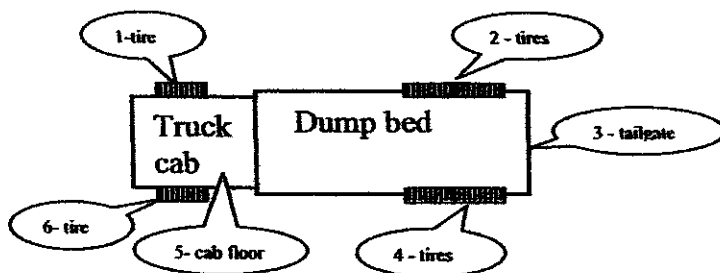
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592037

Please print or type.

| | | | | | |
|--|--|---|---|--|---------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1100 W. 1st St. Golden, CO 80401 (303) 273-4444 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 13th and Denst St Golden, CO 80401 (303) 273-4444 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1100 W. 1st St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Alum Sol | | 00457-0-0000-0511315 | | 19. Total Quantity 0-000000 20. Unit Wt/Vol Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | Signature | | Month Day Year 8 31 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARIL PHELAN | | | Signature | | Month Day Year 8 30 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

GENERATOR'S COPY

COM000033

515223

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1300 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 558610 | GRID 0000 |
| WEIGHMASTER 0500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 11:50 am |
| DATE OUT 30 August 2007 | | TIME OUT 11:50 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 592037 | ORIGIN | |

Gross Weight 84,460.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 49,360.00 lb 24.68 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.68 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

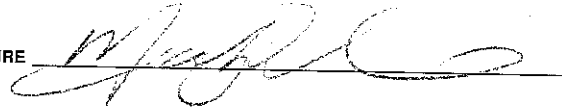
NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE






NON-HAZARDOUS WASTE MANIFEST

0592037

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 "Hills Dr" Golden, CO 80401 303-273-0500 | | | | 5. Generating Location (if different) School of Mines / Research Institute West of 17th and Lincoln Golden, CO 80401 303-273-0500 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Flats Golden, CO At 2000 ft. of the 17th St. Interchange, between 17th and 18th Sts. | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | 02/15/97 04/30/97 | | 19. Total Quantity 0 Drums 0 Bulk | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 30 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARIL PHELAN | | | | Signature [Signature] Month 8 Day 30 Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

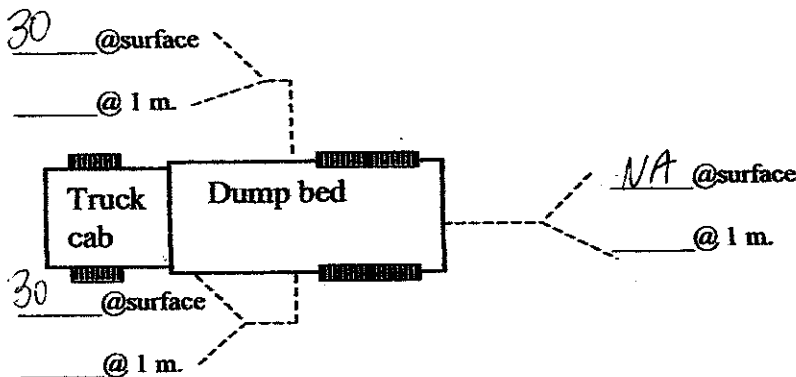
TRANSPORTER #1

COM000037

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1136 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

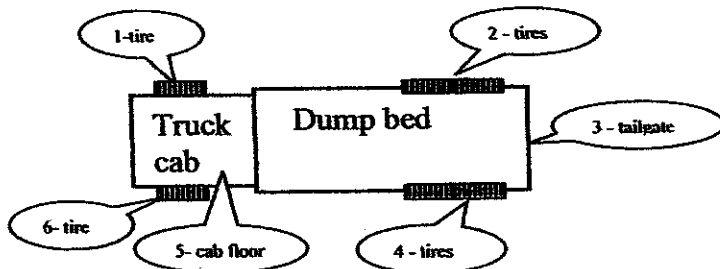
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592038

Please print or type.

| | | | | | |
|--|--|--------------------------|---|---|------------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Niles St Golden, CO 80401 303-273-3400 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Dahl St Golden, CO 80401 303-273-3498 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address 303 N. 1st St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description a. Iron S&S | | | 17. Allied Waste Approval # and Exp. Date CO 107 070902 011510 | | 18. Containers No. Type 18 Y |
| | | | | | 19. Total Quantity 0.00 tons |
| | | | | | 20. Unit Wt/Vol Tons |
| | | | | | |
| | | | | | |
| | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | | Signature | | Month Day Year 8 30 04 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | | Signature | | Month Day Year 08 30 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 8060403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 513221

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 55861a | GRID 0000 |
| WEIGHMASTER 5300056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 11:53 am |
| DATE OUT 30 August 2007 | | TIME OUT 11:53 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 572038 | ORIGIN | |

Gross Weight 84,400.00 lb
 Tare Weight 37,200.00 lb Inbound --
 Net Weight 47,200.00 lb 23.60 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.60 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE Kens



NON-HAZARDOUS WASTE MANIFEST

0592038

Please print or type:

| | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|------|--------------------|---------------|----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address 1000 Highway 51 Golden, CO 80401 303-279-3344 | | | | 5. Generating Location (if different) Schmidt Mines Research Station North West of 12th and Dahl St Golden, CO 80401 303-279-3998 | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 20711 Hwy 52 Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | | No. | Type | 0 Drums | 0 Cans | |
| a. | | | 01770000101215 | | 18 Y | | Yards | Tons | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | | Month 6 | Day 30 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | | Month 08 | Day 30 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | Month | Day | Year |

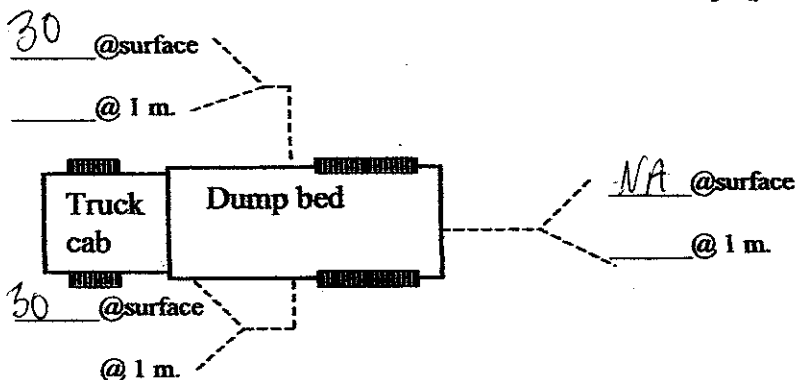
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1144 Surveyed by: C Hicks J Matheson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

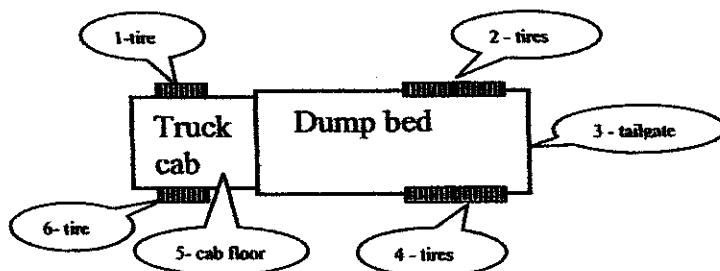
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592039

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|--------------------|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 North St Golden, CO 80401 303-273-3993 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3993 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Hwy 30 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | 18. Containers | 19. Total Quantity | 20. Unit Wt/Vol |
| a. Heavy Soil | | 001167 070903 1511315 | | 18 | K | 1-Yards | 1-Ton | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Berger | | | | Signature | | Month | Day | Year |
| | | | | | | 7 | 30 | 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature | | Month | Day | Year |
| | | | | | | 7 | 30 | 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| | | | | | | | | |

GENERATOR'S COPY

COM000033

515228

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800605
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 585623 | GRID 0000 |
| WEIGHMASTER #500056 Barbara Jo S | | |
| DATE IN 30 August 2007 | | TIME IN 12:03 pm |
| DATE OUT 30 August 2007 | | TIME OUT 12:03 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592029 | ORIGIN | |

Gross Weight 83,180.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 48,920.00 lb 24.46 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.46 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



461

NON-HAZARDOUS WASTE MANIFEST

0592039

Please print or type.

| | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|-------------------------|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-0900 | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Lincoln Golden, CO 80401 303-273-0900 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity |
| | | | | | No. Type | | 20. Unit Wt/Vol |
| a. Warm Soil | | | CO 127 070008 7511415 | | 18 K | | 7 Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name: Steve Seaton | | | | Signature: [Signature] | | Month Day Year: 1 30 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: Mike Murray | | | | Signature: [Signature] | | Month Day Year: 1 30 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month Day Year: | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | Month Day Year: | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

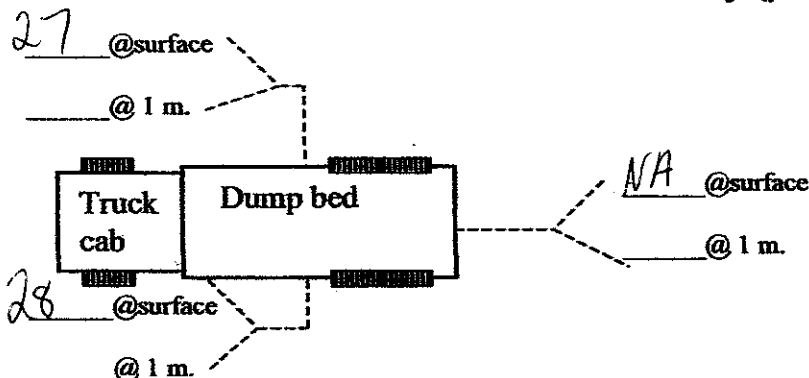
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1149 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

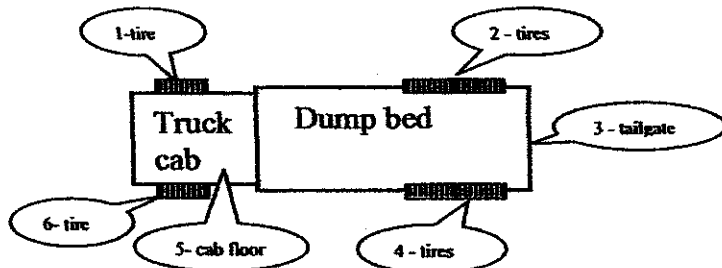
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 253 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 554 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592040

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Platte St Golden, CO 80401 303-273-0000 | | | | 5. Generating Location (if different) 400 West of 12th and Ditch St Golden, CO 80401 303-273-0000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Platte St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 701147 10003 Y11015 | | 19. Total Quantity Y Yards | |
| b. | | | | 20. Unit Wt/Vol T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | | | Signature [Signature] | |
| | | | | Month Day Year 2 30 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 2 3 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

315234

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 588429 | GRID 0000 |
| WEIGHMASTER 3800056 Barbara Jc S | | |
| DATE IN 30 August 2007 | | TIME IN 12:08 pm |
| DATE OUT 30 August 2007 | | TIME OUT 12:08 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592040 | ORIGIN | |

00 Gross Weight 79,460.00 lb
Tare Weight 36,580.00 lb Inboard -
Net Weight 42,880.00 lb 21.44 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.44 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



NON-HAZARDOUS WASTE MANIFEST

0592040

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Denver, CO 80202 303-733-0000 | | | | 5. Generating Location (if different) 17th West of 1st and Quaker St Denver, CO 80202 303-733-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 W. 1st St. Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Normal Soil | | 17. Allied Waste Approval # and Exp. Date 157-00900-1511-15 | | 18. Containers No. Type | |
| b. | | | | 19. Total Quantity Cubic Yards | |
| c. | | | | 20. Unit Wt/Vol Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | Signature | | Month Day Year 12 30 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name James H. Hume | | Signature | | Month Day Year 12 30 04 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

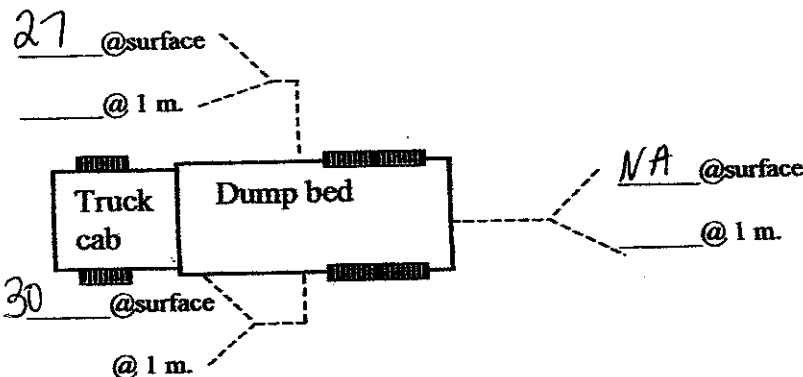
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1200 Surveyed by: C Hicks J Matteson
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

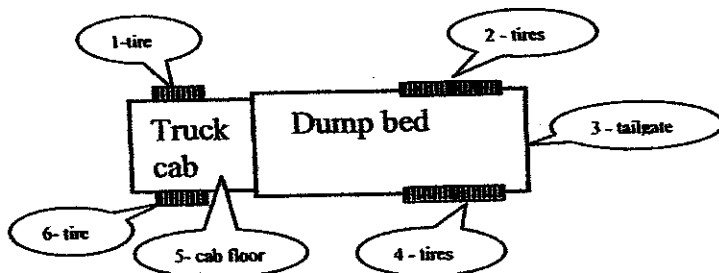
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592041

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1400 Illinois St Garden, CO 80401 303-273-0488 | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-0488 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 11111 1st St Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. None Sent | | CO 107 07908 Y01 1915 | | 19. Total Quantity No. Containers | |
| b. | | | | 20. Unit Wt/Vol No. Containers | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 8 30 94 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sant'ogno Vorseas | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

515242

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 566637 | 0000 |
| WEIGHMASTER | | |
| 260005s Barbara Jo S | | |
| DATE IN | | TIME IN |
| 30 August 2007 | | 12:22 pm |
| DATE OUT | | TIME OUT |
| 30 August 2007 | | 12:22 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592041 | | |

00 Gross Weight 78,060.00 lb
 Tare Weight 35,640.00 lb Inbound -
 Net Weight 42,420.00 lb 21.21 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.21 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

8-30-07



NON-HAZARDOUS WASTE MANIFEST

0592041

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Maple St Garden, CO 80401 303 273 3446 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303 273 3446 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Maple St Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 1000 Maple St | | 2018/01/20-01/25/19 | | 19. Total Quantity 2 Yards | |
| b. | | | | 20. Unit Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month 8 Day 30 Year 17 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargay | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

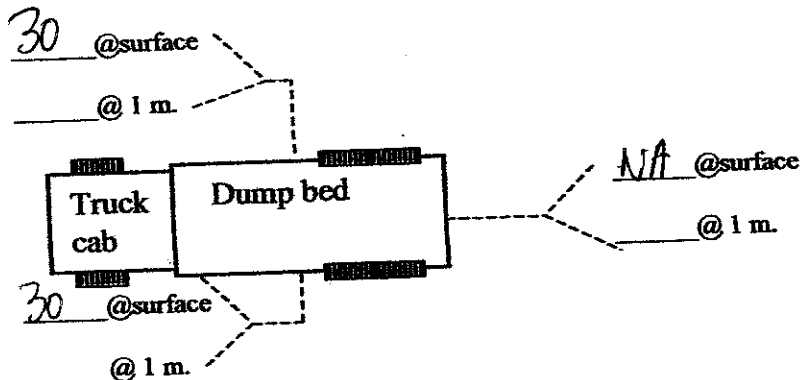
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/30/07 1208 Surveyed by: C Hicks J Mattson
 Trucking Company: Griewe Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

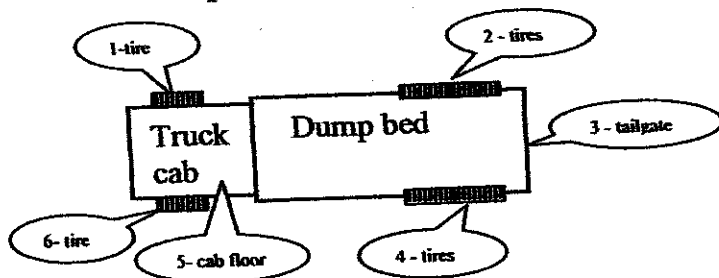
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 253 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 554 dpm |

ST-RAD-GEN-006



NON-HAZARDOUS WASTE MANIFEST

0643465

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute North West of 12th and Quail St Golden, CO 80401 303 273-3993 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Quail St Golden, CO 80401 303 273-3993 | |
| 4. Phone () 303-273-3993 | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Research Institute North West of 12th and Quail St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Metal Sol | | 1800700000131010 | | 19. Total Quantity 18 Drums | |
| b. | | | | 20. Unit Wt/Vol Drums | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 10 Day 30 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 08 Day 30 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

315255

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558649 | 0000 |
| WEIGHMASTER | | |
| #500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 30 August 2007 | 12:43 pm | |
| DATE OUT | TIME OUT | |
| 30 August 2007 | 12:43 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 643468 | | |

Gross Weight 84,260.00 lb
Tare Weight 35,700.00 lb
Net Weight 48,560.00 lb 24.28 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.28 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0643465

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1575 Illinois St Golden, CO 80601 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Illinois St Golden, CO 80601 303-273-3060 | | | | |
| 4. Phone () 303-273-3060 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Frederick Lawndell 2000 Hwy 90 Golden, CO 80601 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Normal Soil | | CO, 07/02/00 - 01/01/01 | | 18 | | 0 Drums | 0 Gallons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve E. Graham | | | | Signature | | Month 08 | Day 30 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Michael Collette Lopez | | | | Signature | | Month 08 | Day 30 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

TRANSPORTER #1

COM000033

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|------|---------|----------|----------------------------|------|
| JD 01 | 8/29 | 1200 | 1210 | 18 | 77.2 |
| Ruiz 95 | | 1200 | 1220 | | 76.5 |
| Marquez 96 | | 1220 | 1227 | | 77.5 |
| JD 04 | | 1225 | 1236 | | 74.4 |
| Grieve 8 | | 1230 | 1243 | | 80.9 |
| Murray 461 | | 1235 | 1253 | | 81.0 |
| Grieve 24 | | 1255 | 1301 | | 83.1 |
| Grieve 23 | | 1300 | 1310 | | 79.3 |
| Grieve 12 | | 1305 | 1319 | | 79.3 |
| Collazo 13 | | 1310 | 1327 | | 75.5 |
| Marquez 961 | | 1320 | 1336 | | 76.0 |
| JD 01 | | 1325 | 1343 | | 74.8 |
| Ruiz 95 | | 1340 | 1351 | | |
| JD 04 | | 1345 | 1400 | | |
| Marquez 96 | | 1400 | 1407 | | |
| Grieve 8 | | 1400 | 1412 | | |
| Murray 461 | | 1410 | 1425 | | |
| Grieve 24 | | 1415 | 1432 | | |
| Grieve 23 | | 1425 | 1440 | | |
| Grieve 12 | | 1435 | 1448 | | |

Truck Departure Record Form

[illegible]

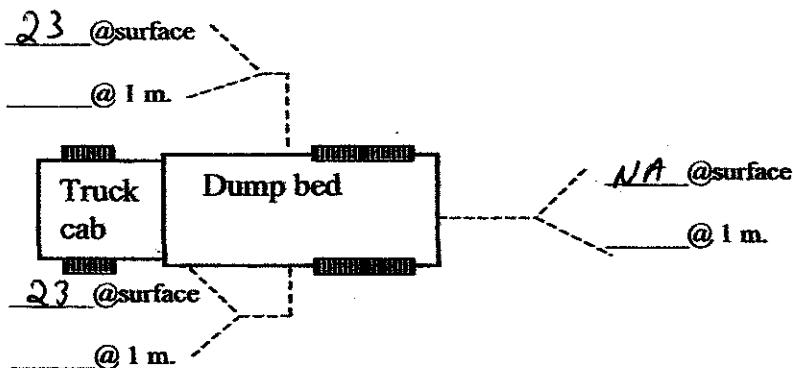
70 trucks

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1210 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

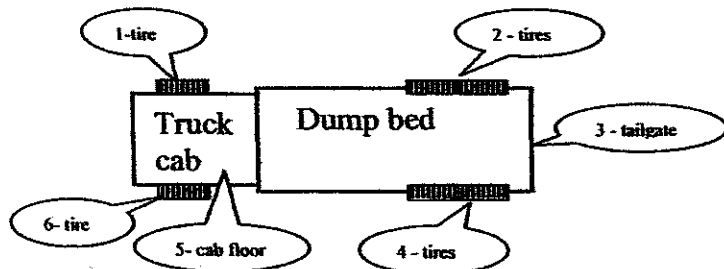
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



1001

NON-HAZARDOUS WASTE MANIFEST

0592158

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|--|--|--------|------------|
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-271-3696 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 13th and Birch St. Golden, CO 80401 303-271-3696 | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Hwy 50 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>Approx</td> <td>Containers</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | Approx | Containers |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | |
| | | Approx | Containers | | | | | | | | | | |
| a. Metal Shred | | 001W-0708-01511915 | | 18 Y | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| Steve Beckman | | | | 8 29 02 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| Joe W Ruiz | | | | 8 21 02 | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

8-28-07

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|--------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 585275 | | 0000 | |
| WEIGHMASTER | | | | | |
| #500056 Barbara Jo S | | | | | |
| DATE IN | | | | TIME IN | |
| 29 August 2007 | | | | 12:29 pm | |
| DATE OUT | | | | TIME OUT | |
| 29 August 2007 | | | | 12:29 pm | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | | ORIGIN | | |
| 592158 | | | | | |

Gross Weight 77,200.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 41,620.00 lb 20.81 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.81 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



0592158

2. Page 1 of

different) School of Human Research Institute

North West of 12th and Grand
London, MO 64041
700-273-3890

6. Phone ()

9. Transporter #1's Phone

12. Transporter #2's Phone

| | |
|----------------------|--|
| 15. Facility's Phone | |
|----------------------|--|

DATE: _____

SIGNATURE: _____

18. Containers

| | |
|--------------------|--------|
| 19. Total Quantity | 10,000 |
|--------------------|--------|

20. Unit
Wt/Vol

01706245010

134

2. *Verfahren*

1003

b.

C.

d.

22. Special Handling Instructions and Additional Information

23. **GENERATOR'S CERTIFICATION:** I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Signature _____

| Month | Day | Year |
|-------|-----|------|
| 8 | 29 | 98 |

Printed/Typed Name John W. Rite

Signature _____

| Month | Day | Year |
|-------|-----|------|
| 8 | 27 | 02 |

Printed/Typed Name

Signature _____

Month Day Year

26. Discrepancy Indication Space

27. **Facility Owner or Operator:** Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)

Printed/Typed Name

Signature _____

Month Day Year

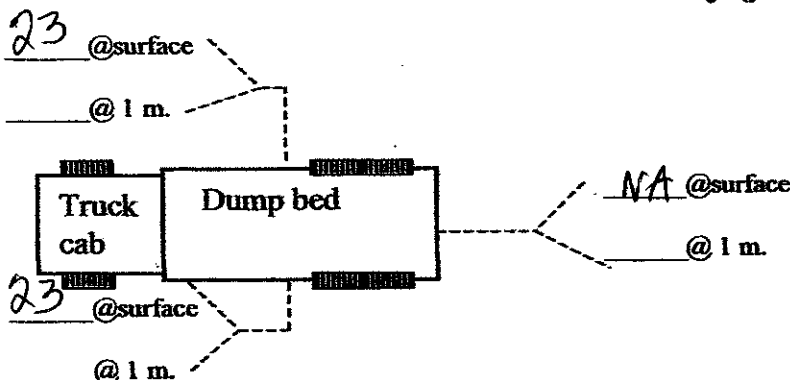
T/S/D FACILITY

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 / 1220 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

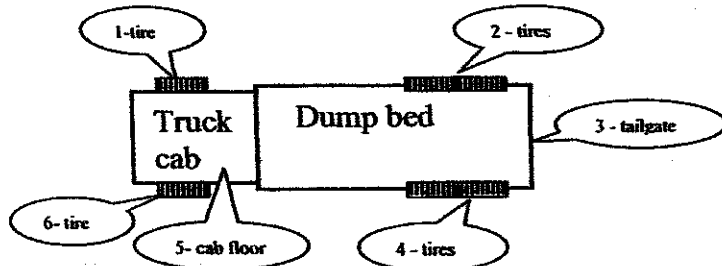
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592159

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address North West St Garden, CO 80401 303-273-3600 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3600 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 9470 Hwy 95 Garden, CO 80401 #123456 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | COLETS #0007511015 | | No. Type | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve B. Kiger | | | | Signature | |
| | | | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

511877

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 558283 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 12:39 pm |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 12:39 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 992159 | | |

00 Gross Weight 76,500.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 39,520.00 lb 19.76 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.76 | TN | SW-DONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592159

Please print or type.

| | | | | | |
|--|--|---|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute North West 47 17th and Birch St Golden, CO 80401 303-273-3600 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West 47 17th and Birch St Golden, CO 80401 303-273-3600 | | |
| 4. Phone () 303-273-3600 | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Golden, CO 80401 303-273-3600 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Iron Ore | | 00117270984-0511916 | | 19. Total Quantity 12 Drums | |
| b. | | | | 20. Unit Wt/Vol 100 lbs | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Braken | | | | Signature [Signature] Month 8 Day 29 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

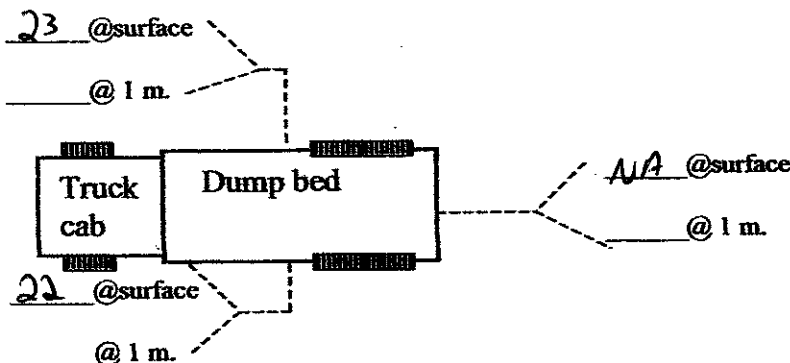
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1227 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

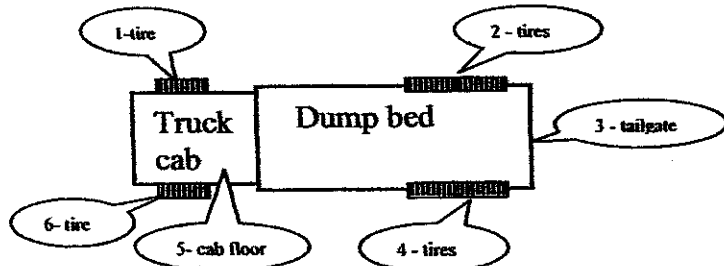
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592180

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1510 Union St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Dahl St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 31001 W. 38 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 3111/27/2008 1311619 | | 19. Total Quantity 12 Drums | |
| b. | | | | 20. Unit Wt/Vol 11 tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] Month Day Year 7/29/08 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Loma | | | | Signature [Signature] Month Day Year 8/29/08 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

EOM000033

511888

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760602
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 538298 | 0000 |
| WEIGHMASTER | | |
| IS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 1:04 PM | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 1:04 PM | |
| VEHICLE | ROLL OFF | |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 592160 | | |

00 Gross Weight 77,540.00 lb
 Tare Weight 36,580.00 lb Inbound --
 Net Weight 40,960.00 lb 20.48 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.48 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592130

Please print or type.

| | | | | | | | |
|--|--|--------------------------|--|--|----------------------------|--------------------------------|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1400 Bridge St Denver, CO 80202 303-275-3946 | | | | 5. Generating Location (if different) North West 1/4 Sec 10 and 30, T1S Golden, CO 80101 303-275-3946 | | | |
| | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address 1400 Bridge St Denver, CO 80202 | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description a. Iron Oxide b. c. d. | | | 17. Allied Waste Approval # and Exp. Date 71107/03000-0511010 | | 18. Containers | | 19. Total Quantity |
| | | | | | No. | Type | Containers |
| | | | | | | | Yards |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name: <u>Steve Benker</u> | | | | Signature: <u>[Signature]</u> | | Month Day Year: <u>7/29/07</u> | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name: <u>Fernando Loma</u> | | | | Signature: <u>[Signature]</u> | | Month Day Year: <u>8/9/07</u> | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

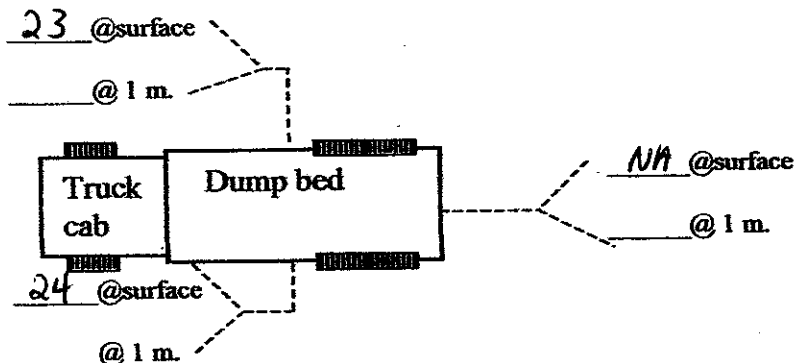
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1236 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

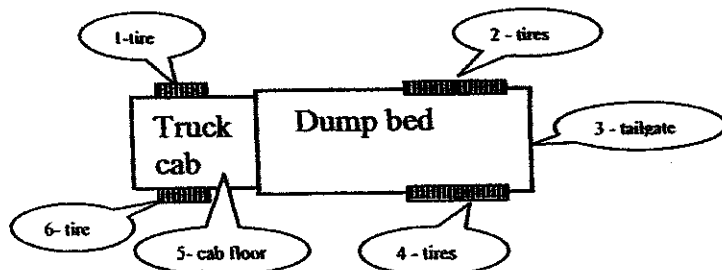
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592161

Please print or type.

| | | | | | | | | |
|--|--|--------------------------|--|---|----------------------------|---------------------------|--------------------|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1550 Blaine St Golden, CO 80401 303-273-3700 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3700 | | | | |
| | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothill Center 8500 Hwy 10 Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Non Soil | | | 17. Allied Waste Approval # and Exp. Date 00107/2004Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| | | | | | No. | Type | Drums | Cartons |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month Day Year 6 29 07 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Harold Mansner | | | | Signature | | Month Day Year 8 20 07 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | |

GENERATOR'S COPY

COM000033

511804

FOOTHILLS LANDFILL
8900 HIGHWAY 72
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588277 | 0000 |
| WEIGHMASTER | | |
| BS000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 1:07 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 1:07 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572161 | | |

00 Gross Weight 74,360.00 lb
Tare Weight 35,640.00 lb
Net Weight 38,740.00 lb 19.37 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592161

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Golden, CO 80401 303-273-0050 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0050 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address F-2, Bldg. 20-100 Bldg. 20-100 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Shavings | | COLUMBIA 111515 | | 19. Total Quantity 5 drums | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Dick Seamon | | | | Signature [Signature] | |
| | | | | Month Day Year 6 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name H. J. K. Anderson | | | | Signature [Signature] | |
| | | | | Month Day Year 6 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

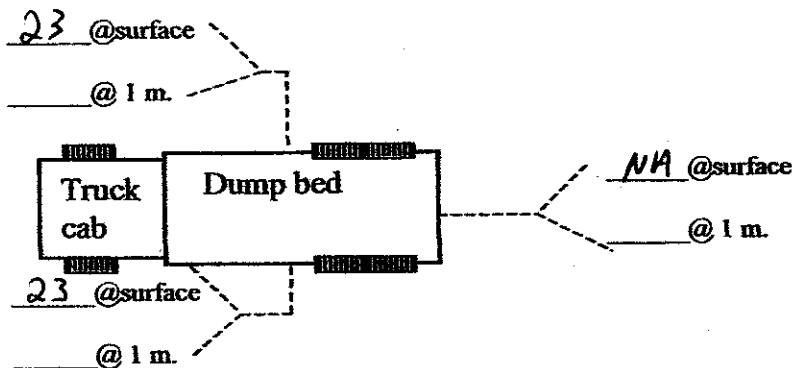
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1243 Surveyed by: C Hicks, J Mattson
 Trucking Company: Griev Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

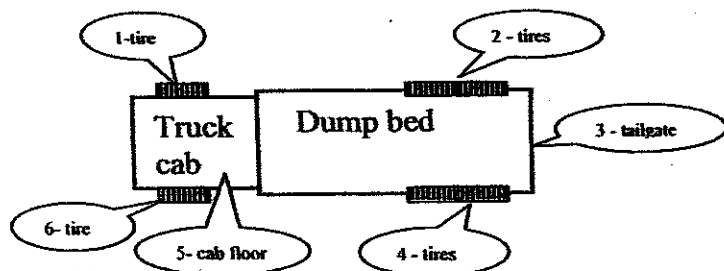
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592188

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|---|--|-----|------|-----|--|
| 3. Generator's Name and Mailing Address 1501 17th St Golden, CO 80401 303-275-3900 | | | | 5. Generating Location (if different) University School of Mines Research Institute North West of 17th and Birch St Golden, CO 80401 303-275-3900 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 3500 Hwy 32 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>184</td> <td></td> </tr> </table> | | No. | Type | 184 | |
| No. | Type | | | | | | | | |
| 184 | | | | | | | | | |
| | | | | 19. Total Quantity 7 Yards | | | | | |
| | | | | 20. Unit Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Blum | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 8 29 97 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 8 29 97 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |

GENERATOR'S COPY

COM000033

322807

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558002 | 0000 |
| WEIGHMASTER | | |
| 1500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 1:09 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 1:09 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| | | |

CO Gross Weight 80,880.00 lb
Tare Weight 36,540.00 lb
Net Weight 44,340.00 lb 22.17 TN

Inbound ---

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592166

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1970 Spruce St Golden, CO 80401 303-275-3400 | | | | 5. Generating Location (if different) North West of 12th and Grand St Golden, CO 80401 303-275-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Waste Transfer Station Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Oil | | 05-1103000-011915 | | 184 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 2.4 drums | | | | | |
| 20. Unit Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brunner | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

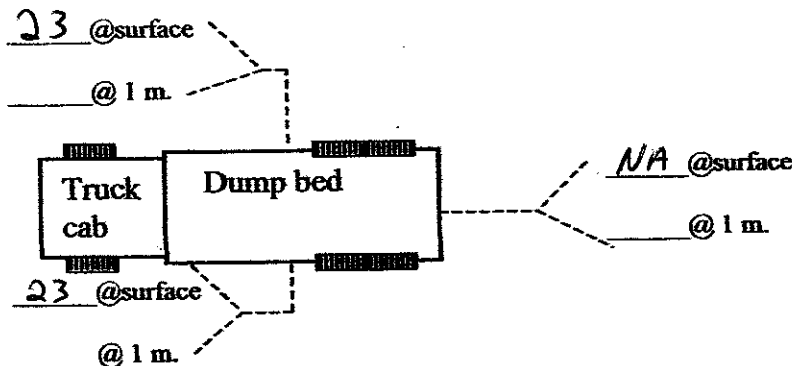
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1253 Surveyed by: CHicks, J Matson
 Trucking Company: Gniere Truck license plate no. /state: 4601

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

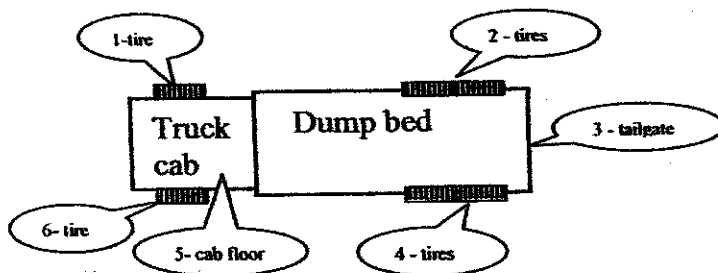
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

461
0592152

Please print or type.

| | | | | | |
|---|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 9th St Golden, CO 80401 303-275-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-275-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 9th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | 21. Additional Descriptions for Materials Listed Above | |
| | | | | 22. Special Handling Instructions and Additional Information | |
| | | | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

321809

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588314 | 0000 |
| WEIGHMASTER | | |
| K500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 1:32 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 1:32 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572162 | | |

00 Gross Weight 81,000.00 lb
 Tare Weight 34,260.00 lb Inbound --
 Net Weight 46,740.00 lb 23.37 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

461
0592152

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 10000 1st St Colum, CO 80501 303-273-3000 | | | 5. Generating Location (if different) Scholarship Mines Research Institute North West of 12th and Birch St Colum, CO 80501 303-273-3000 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 1st St Colum, CO 80501 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | 10000 1st St | | 10000 1st St | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benham | | | | 10 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

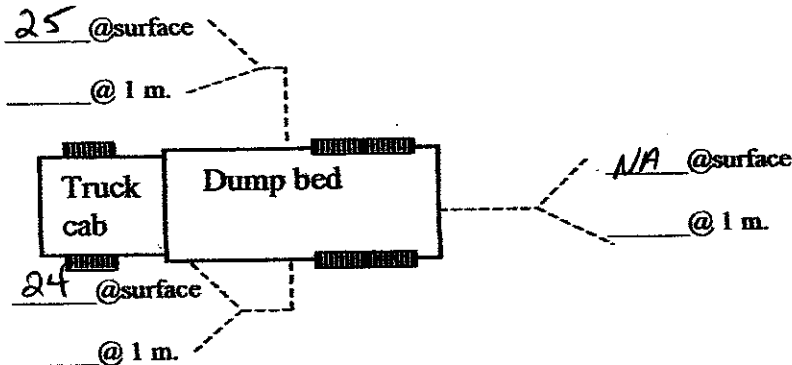
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1301 Surveyed by: CHicks, J Matkon

Trucking Company: Gniere Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

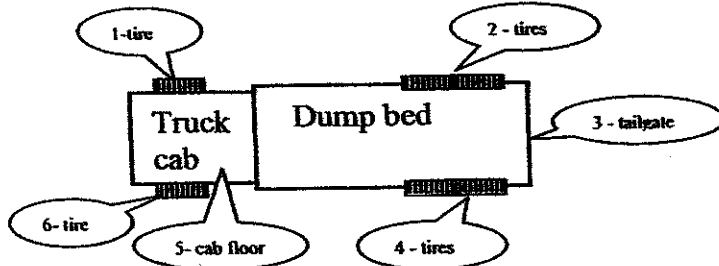
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592163

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Main St Garden, OH 44041 313-273-1500 | | | 5. Generating Location (if different) Garden School of Mines Research Institute North West of 12th and Birch St Garden, OH 44041 313-273-1500 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Garden, OH | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Sol | | 0710707000 Y511915 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Joe Grieve | | Signature Joe Grieve | | Month Day Year 8 29 27 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature Ken Shannon | | Month Day Year 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

29

511910

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 526315 | 0000 |
| WEIGHMASTER | | |
| 2300056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 1:35 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 1:35 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592163 | | |

00 Gross Weight 83,100.00 lb
Tare Weight 37,200.00 lb
Net Weight 45,900.00 lb 22.95 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.95 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE Ken

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592163

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|--|--|-----|------|----|---|
| 3. Generator's Name and Mailing Address 1234 Main St Denver, CO 80202 Phone () 303-273-0900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-0900 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1234 Main St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>18</td> <td>Y</td> </tr> </table> | | No. | Type | 18 | Y |
| No. | Type | | | | | | | | |
| 18 | Y | | | | | | | | |
| | | | | 19. Total Quantity 18 Yards | | | | | |
| | | | | 20. Unit Wt/Vol Tons | | | | | |
| a. | | | | | | | | | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Joe Grieve | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 8 29 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 8 29 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

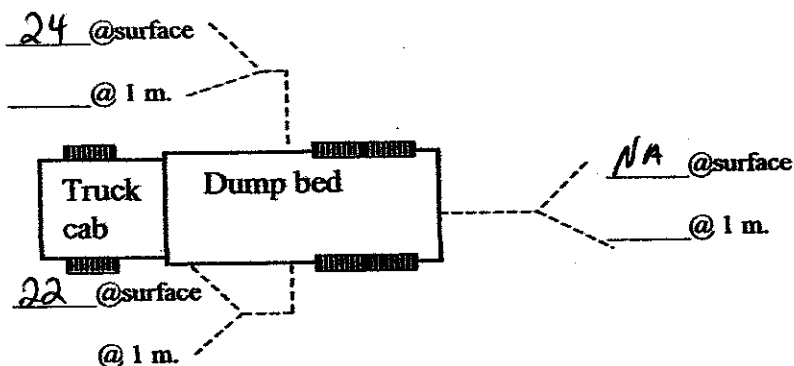
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1310 Surveyed by: CHicks, J Matkon
 Trucking Company: Gniere Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

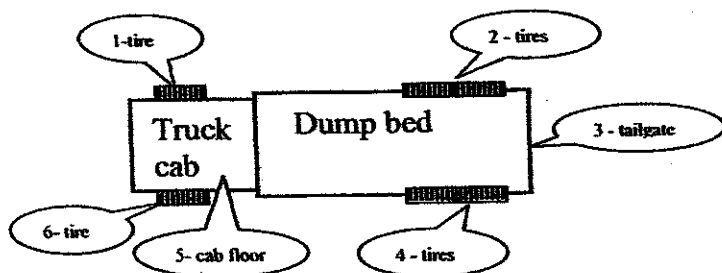
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592165

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 Ridge St Ontonagon, MI 49840 313-273-3446 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and 1st St Ontonagon, MI 49840 313-273-3446 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste Services, Inc. 2000 W. 1st St Ontonagon, MI 49840 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Bulk Sol | | 0010/0709 111915 | | No. Type | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| 0 Drums | | 3 Tons | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve B. [Signature] | | [Signature] | | 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mark Phelan | | [Signature] | | 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511913

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------------|------------------|---------------------|
| SITE 01 | TICKET 558318 | GRID 0000 |
| WEIGHMASTER | | |
| IS00056 Barbara Jo S | | |
| DATE IN 29 August 2007 | | TIME IN 1:39 pm |
| DATE OUT 29 August 2007 | | TIME OUT 1:39 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592165 | ORIGIN | |

Gross Weight 79,320.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 44,220.00 lb 22.11 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.11 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0592165

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Dime St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 0016124038-511915 | | 19. Total Quantity 1 Yards | |
| b. | | | | 20. Unit 1 tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bertram | | Signature | | Month Day Year 1/29/27 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature | | Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

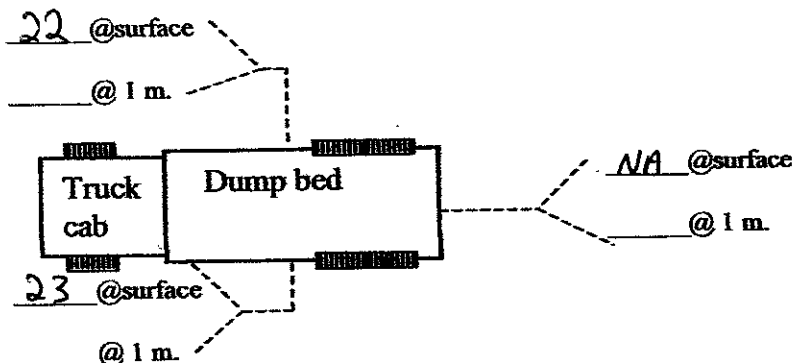
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1319 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

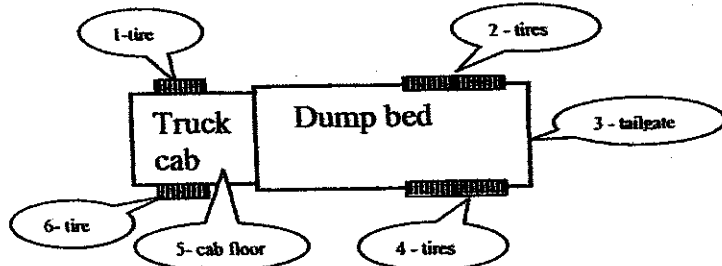
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592164

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|-----------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1245 Illinois St Golden, CO 80401 303-273-0000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 10th and North St Golden, CO 80401 303-273-0000 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Green Trucking, Inc. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1245 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Normal b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00100 04/20/95/12/10 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | Q. Drums | Drumless | |
| | | | | 17 | | Yards | Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 6 | Day 1 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Dennis Brown | | | | Signature | | Month 8 | Day 21 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

511915 / 2

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 558320 | GRID 0000 |
| WEIGHMASTER 8200056 Barbara Jo S | | |
| DATE IN 29 August 2007 | | TIME IN 1:45 pm |
| DATE OUT 29 August 2007 | | TIME OUT 1:43 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592164 | ORIGIN | |

00 Gross Weight 79,300.00 lb
 Tare Weight 37,700.00 lb Inbound --
 Net Weight 41,600.00 lb 20.80 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.80 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0592164

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-7496 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greiner Trucking #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO 187 070908 YST1915 | | 19. Total Quantity No. Type 15 Y-Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 6 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Don Green | | Signature | | Month Day Year 8 27 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

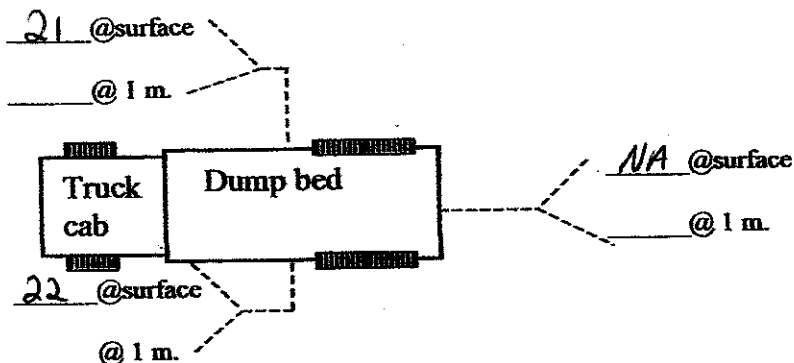
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1327 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

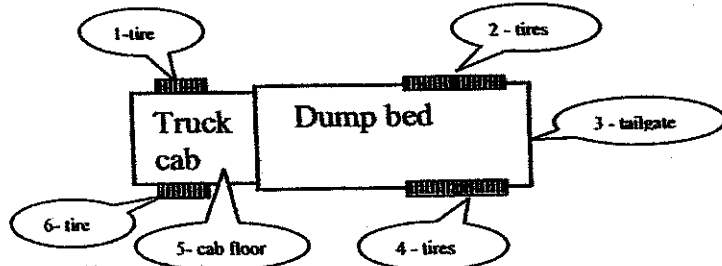
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592147

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 203-273-3900 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 203-273-3900 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Facilities / Address 203-273-3900 Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 0-1.07 076001 511016 | | 19. Total Quantity 0 Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bowman | | | | Signature [Signature] Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Calaza Lopez | | | | Signature [Signature] Month Day Year 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

511915

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588362 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbera Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 1:57 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 1:57 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592147 | | |

Gross Weight 75,460.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 39,760.00 lb 19.88 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.88 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592147

Please print or type.

| | | | | | |
|--|--|--------------------------|---|---|---------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute North West of 12th and Birch Golden, CO 80401 303-275-0400 | | | | 5. Generating Location (if different) | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 3500 14th St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| | | | | | No. Type |
| a. Flammable | | | 10/10/07 511015 | | 19. Total Quantity 7.75 tons |
| b. | | | | | 20. Unit Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Eric Simpson | | | | Signature: [Signature] Month: 8 Day: 29 Year: 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Rafael Collazo Lopez | | | | Signature: [Signature] Month: 08 Day: 29 Year: 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: Month: Day: Year: | |

TRANSPORTER #1

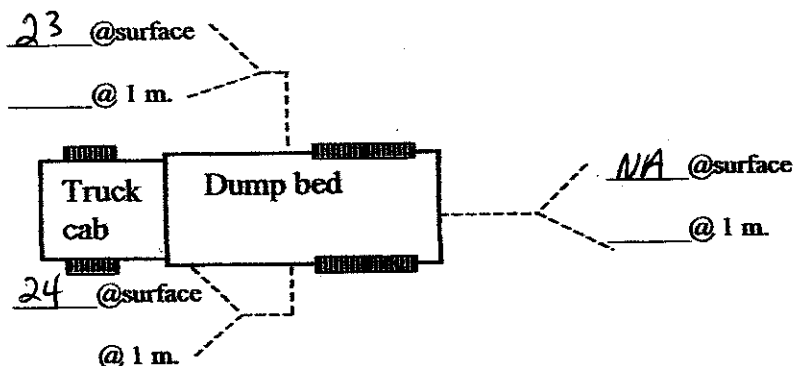
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1336 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

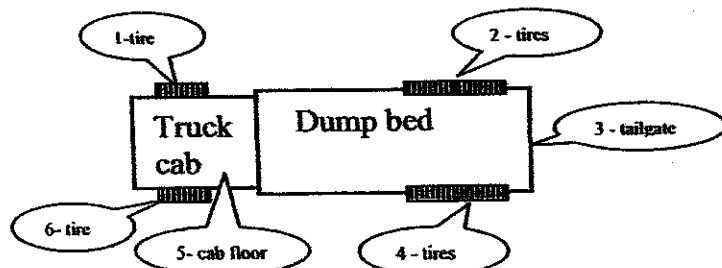
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0582148

Please print or type.

| | | | | | | | | |
|--|--|--|--|--|------|--------------------|-----------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 Phone () 303-773-3900 | | | | 5. Generating Location (if different) Rock School of Mines Research Institute North West of 12th and Lincoln Golden, CO 80401 Phone () 303-773-3900 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Rock School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date 0000000000 (S11015) | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | | | 7 Yards | 1-Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] | | Month 8 | Day 29 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name [Name] | | | | Signature [Signature] | | Month 8 | Day 29 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0592148

Please print or type.

| | | | | | | | | |
|--|--|---|--|---------------------------------------|------|-------------------------------|----------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute North West 12th and Union Ocala, FL 34401 (352) 273-1000 | | | | 5. Generating Location (if different) | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address T. S. D. Facility (352) 273-1000 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Gallons | 20. Unit Wt/Vol Tons | |
| | | | | No. | Type | | | |
| a. | | | | | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brantley | | | | Signature | | Month 8 | Day 29 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Miguel Rodriguez | | | | Signature | | Month 8 | Day 29 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

TRANSPORTER #1

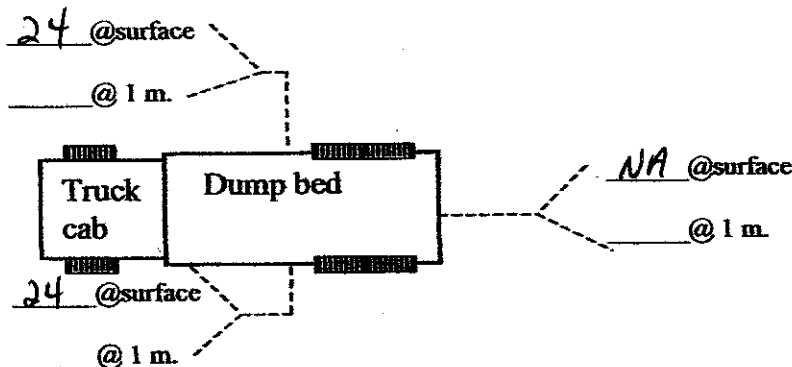
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1343 Surveyed by: CHicks, J Mattson

Trucking Company: Griev Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

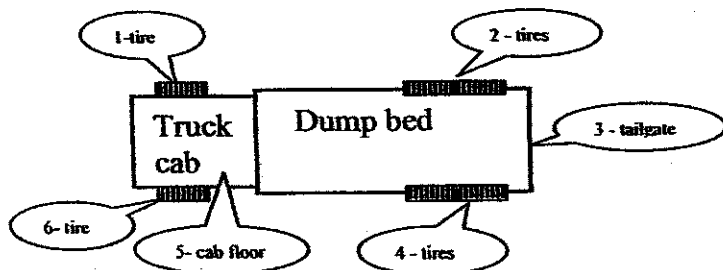
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |

Please print or type.

| Please print or type. | | | | | | | | | | | |
|--|--|--|--------------------------|---|--|-----------------------|----------------------------|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3096 | | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3096 | | | | | | |
| 4. Phone () | | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | | 8. US EPA ID Number | | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | | 11. US EPA ID Number | | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St. Golden, CO 80401 | | | | 14. US EPA ID Number | | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | | 17. Allied Waste Approval # and Exp. Date | | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | | | | No. | Type | | | |
| a. Harm Soil | | | | CO 157-070000-1511216 | | | 1 | 1 | 10.000 | 1.000 | |
| b. | | | | | | | | | | | |
| c. | | | | | | | | | | | |
| d. | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | | | Signature [Signature] | | | Month 1 | Day 29 | Year 00 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name JOSE W RUIZ | | | | | | Signature [Signature] | | | Month 1 | Day 29 | Year 00 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | | | Signature | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | | | Signature | | | Month | Day | Year |

COM000033

GENERATOR'S COPY

511938

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 730603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558540 | 0000 |
| WEIGHMASTER | | |
| 250005a Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 2:07 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 2:07 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592149 | | |

Gross Weight 74,840.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 39,260.00 lb 19.63 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.63 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0592149

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 600 North St Golden, CO 80401 303-270-1000 | | | | 5. Generating Location (if different) Scholar J. Moore Research Institute North West of 12th and North St Golden, CO 80401 303-270-3900 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 19. Total Quantity | |
| a. (Item, Sol) | | 20101009051013 L | | 20. Unit Wt/Vol | |
| b. | | | | 1 | |
| c. | | | | 2 | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Carlson | | | | 10/1/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Jose A Ruiz | | | | 10/1/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

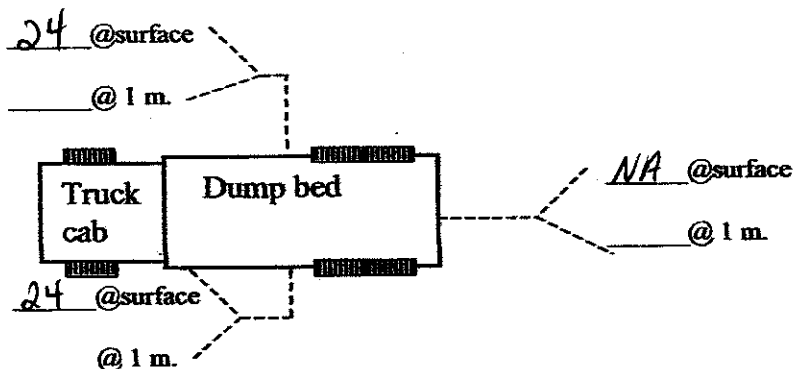
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1351 Surveyed by: CHicks, J Matson
 Trucking Company: Gnere Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

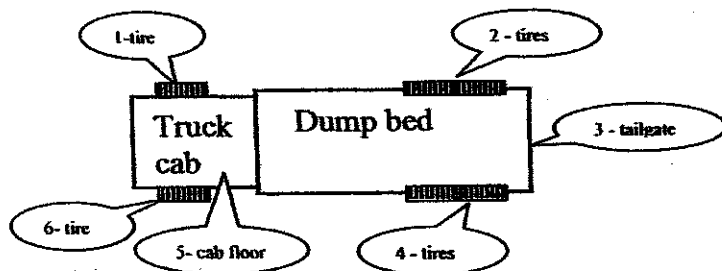
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592150

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1540 Birch St Golden, CO 80401 303-773-6600 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Elm St Golden, CO 80401 303-773-3098 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | b. | | c. | |
| d. | | e. | | f. | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | | | Signature | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name | | | | Signature | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name | | | | Signature | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

511935

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915


| | | |
|-----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558341 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S. | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 2:10 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 2:10 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592130 | | |

Gross Weight 74,880.00 lb
Tare Weight 36,980.00 lb
Net Weight 37,900.00 lb 18.95 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.95 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592150

Please print or type.

| | | | | | | | |
|--|--|--|--|---|------|-------------------------------|------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1400 E. 1st St. Cedar Rapids, IA 52401 563-273-0400 | | | | 5. Generating Location (if different) University School of Human Research Institute North West of 12th and Birch St Cedar Rapids, IA 52401 563-273-0400 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1400 E. 1st St. Cedar Rapids, IA 52401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Heavy Metal b. c. d. | | 17. Allied Waste Approval # and Exp. Date 10-01-2004/01-01-1015 | | 18. Containers | | 19. Total Quantity 17 Tons | 20. Unit Tons |
| | | | | No. | Type | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month Day Year 8/24/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Mark [unclear] | | | | Signature | | Month Day Year 8/24/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

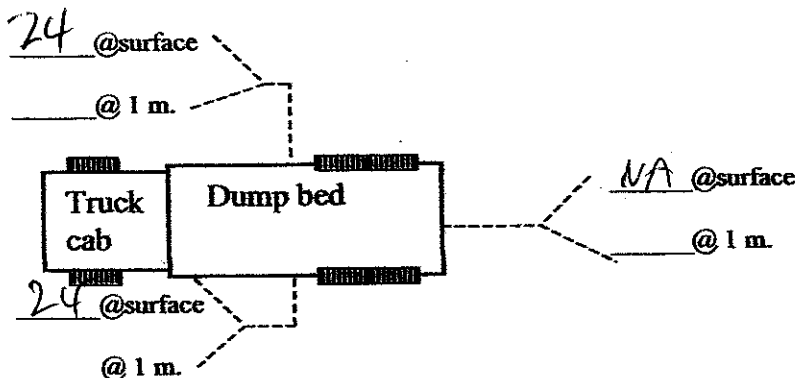
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1400 Surveyed by: CHicks, J Mattson
 Trucking Company: Gnere Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

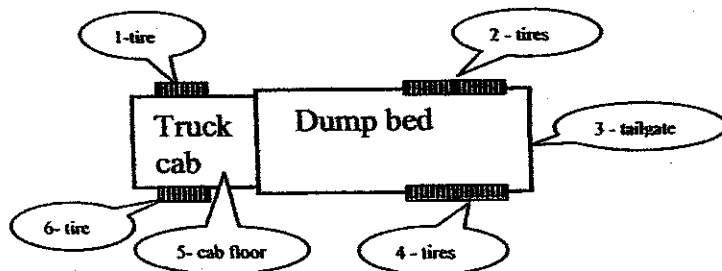
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

7004
0592151

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Golden, CO 80401 303-273-0009 | | | | 5. Generating Location (if different) Cochran School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0008 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 20 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | 00187 (07/09/01) 511915 | | 19. Total Quantity 5 Yards | |
| b. | | | | 20. Unit Wt/Vol Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Green | | Signature <i>[Signature]</i> | | Month Day Year 8/29/01 | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name H. [Name] | | Signature <i>[Signature]</i> | | Month Day Year 8/29/01 | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

521942

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

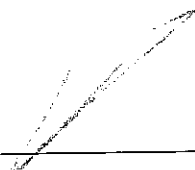
| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 568347 | | 0000 | |
| WEIGHMASTER | | | | | |
| 1600056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 29 August 2007 | | | 2:19 pm | | |
| DATE OUT | | | TIME OUT | | |
| 29 August 2007 | | | 2:19 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 592151 | | | | | |

00 Gross Weight 71,240.00 lb
Tare Weight 35,640.00 lb
Net Weight 35,600.00 lb 17.80 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.80 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

7004
0592151

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 15110 1st St. Bldg. 100 Boulder, CO 80501 Phone (303) 440-3006 | | | | 5. Generating Location (if different) School of Mines Research Institute North West 12th Ave. Bldg 501 Boulder, CO 80501 Phone 303-440-3006 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Boulder, CO 80501 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 07-107-154(00) 12/15/10 | | 19. Total Quantity 7 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Seaman | | Signature <i>[Signature]</i> | | Month Day Year 8/29/10 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name H. J. J. | | Signature <i>[Signature]</i> | | Month Day Year 8/29/10 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

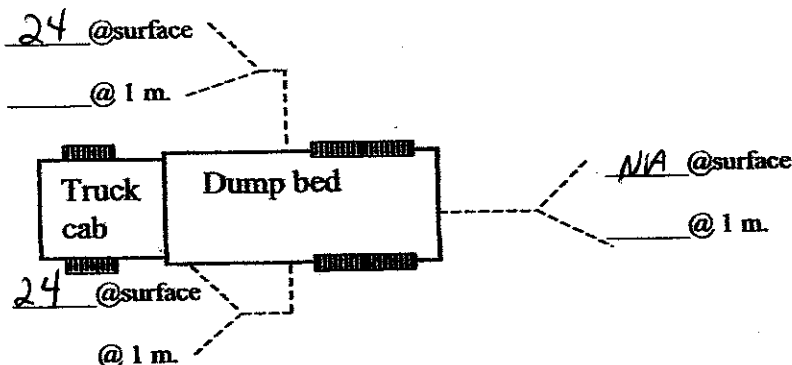
TRANSPORTER #1

QOM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1407 Surveyed by: CHicks, J Mattson
 Trucking Company: Gniewe Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

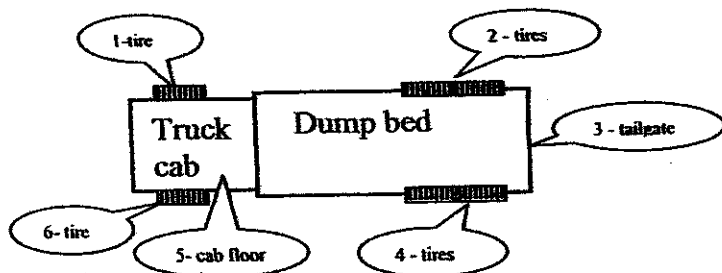
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592156

Please print or type.

| | | | | | |
|--|--|--------------------------|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St Golden, CO 80401 303-273-3003 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and 13th St Golden, CO 80401 303-273-3003 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address 6001 Hwy 50 Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers No. Type |
| a. Non-Haz | | | 001610006-91015 | | 19. Total Quantity 0.000000 20. Unit Wt/Vol Tons |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Br... | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando... | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

511943

FOOTHILLS LANDFILL
 2700 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585345 | 0000 |
| WEIGHMASTER | | |
| 5500056 Barbara Jo B | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 2:24 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 2:24 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592156 | | |

00 Gross Weight 75,580.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 39,000.00 lb 19.50 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.50 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



Please print or type.

| Generator | | Transporter | | T/S/D Facility | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address | | 5. Generating Location (if different) | | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

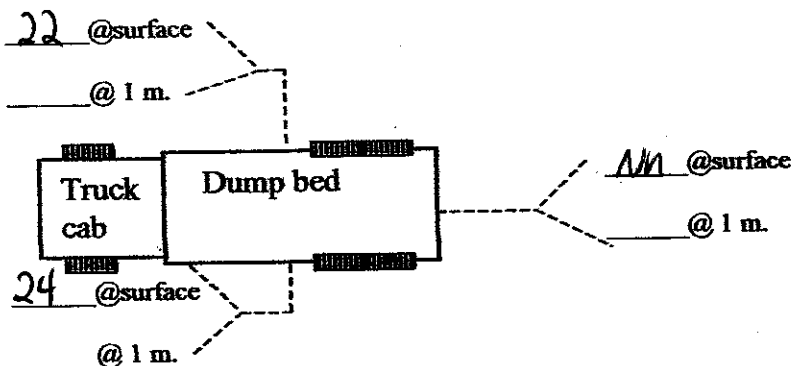
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1412 Surveyed by: Chicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

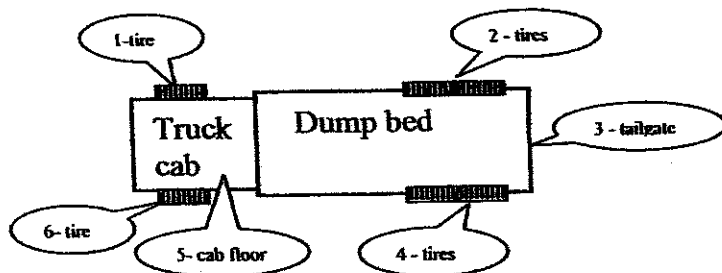
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592152

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-0166 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Park St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 2000 Hwy 93 Golden, CO 80401 (School of Mines Research Institute) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. None listed | | 0018707600 541215 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 29 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 06 29 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511847

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 806403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 582352 | 0000 |
| WEIGHMASTER | | |
| B500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 2:30 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 2:30 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 582152 | | |

00 Gross Weight 79,540.00 lb
 Tare Weight 36,540.00 lb Inbound -
 Net Weight 43,000.00 lb 21.50 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.50 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



ALLIED WASTE



NON-HAZARDOUS WASTE MANIFEST

0592152

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1400 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Sandyville Landfill 1500 Hwy 50 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | CO 187-070802 15/1/015 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0.000000 | | | | | |
| 20. Unit Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #2

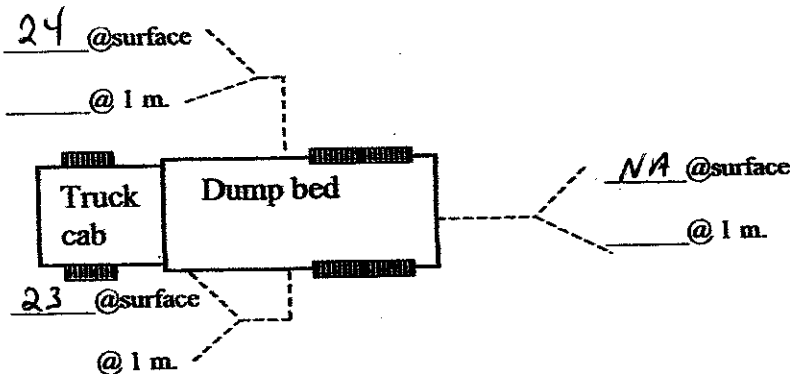
GPM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1425 Surveyed by: C Hicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

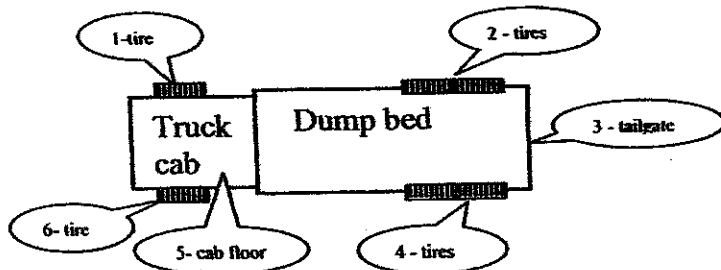
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592155

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|---|--|-----|------|----|--|
| 3. Generator's Name and Mailing Address 1600 Bruce St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1600 Bruce St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>16</td> <td></td> </tr> </table> | | No. | Type | 16 | |
| No. | Type | | | | | | | | |
| 16 | | | | | | | | | |
| a. Metal Sulf | | CO 07 07263 1511615 | | 19. Total Quantity 7-loads | | | | | |
| b. | | | | 20. Unit Wt/Vol Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Braken | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 6 29 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Mike Mueay | | | | Signature [Signature] | | | | | |
| | | | | Month Day Year 7 10 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | | |
| | | | | Month Day Year | | | | | |

GENERATOR'S COPY

COM000033

511955

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|---------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585335 | 0000 |
| WEIGHMASTER | | |
| 000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 2:41 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 2:41 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592155 | | |

00 Gross Weight 78,300.00 lb
 Tare Weight 34,260.00 lb Inbound ---
 Net Weight 44,040.00 lb 22.02 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.02 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592155

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 W. 1st St. Golden, CO 80401 303-273-3396 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Dicks St Golden, CO 80401 303-273-3396 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothill Landfill 39701 Hwy 391 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 1000 W. 1st St. | | 303-273-3396 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brainer | | [Signature] | | 8 29 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Mueasy | | [Signature] | | 8 29 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

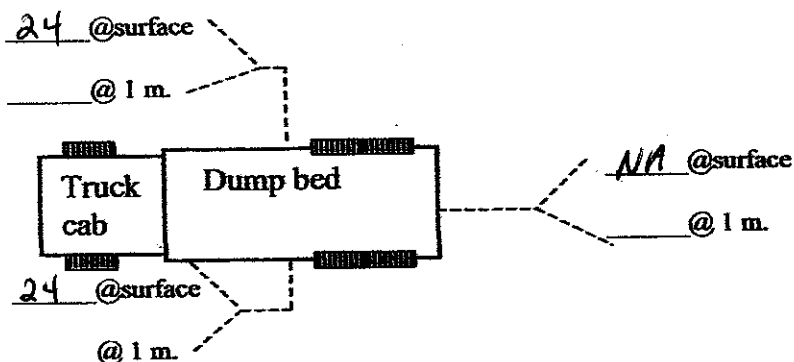
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1432 Surveyed by: CHicks, J Matson
 Trucking Company: Gnere Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

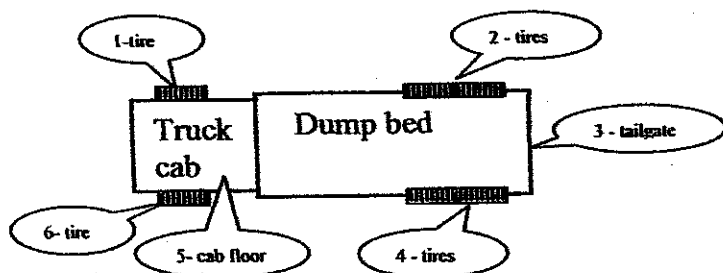
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592153

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|--|----------------------------|----------|--------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 BIRCH ST COLUMBIA, SC 29201 Phone (803) 273-0865 | | | | 5. Generating Location (if different) Campus School of Market Research Institute North West of 12th and Birch St Columbia, SC 29201 803-273-0868 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Joe Grievetracking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address FACILITY NAME RACE Pkwy 30 COLUMBIA, SC 29201 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Non Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date 2001070001 10/1/01 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | | Type | Quantity | Wt/Vol |
| | | | | 18 | | Y | 7-Yards | 7-Tons |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Binnema | | | | Signature | | Month Day Year 8/29/07 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | Month Day Year 08/29/07 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | |

GENERATOR'S COPY

CQM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 511953

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586355 | 0000 |
| WEIGHMASTER | | |
| SC00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 2:48 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 2:48 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592153 | | |

00 Gross Weight 20,480.00 lb
 Tare Weight 37,200.00 lb Inbound -
 Net Weight 43,280.00 lb 21.64 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.64 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592153

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Union St Golden, CO 80401 303-272-3606 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Grant St Golden, CO 80401 303-272-3606 | |
| 4. Phone () 303-272-3606 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Joe Grievetrucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 E. 1st Ave Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 10000 E. 1st Ave | | 10000 E. 1st Ave | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 18 Yards | | | | | |
| 20. Unit Wt/Vol Yards | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bingham | | | | Signature Steve Bingham | |
| Month Day Year 08 29 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature Ken Shannon | |
| Month Day Year 08 29 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| Month Day Year | | | | | |

TRANSPORTER #1

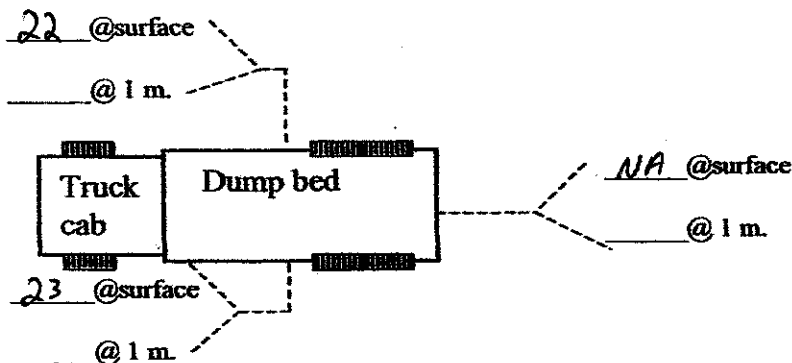
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1440 Surveyed by: CHicks, J Mattson

Trucking Company: Gniewe Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

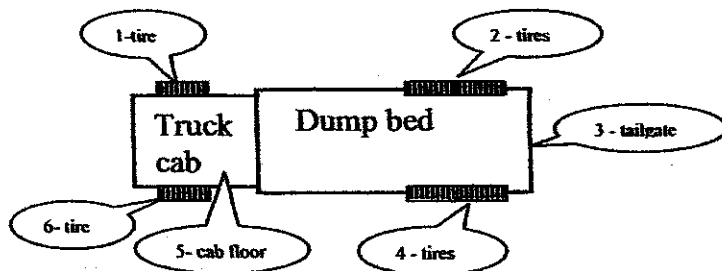
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592154

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|---------------------------|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Blake St. Golden, CO 80401 303-273-3550 | | | | 5. Generating Location (if different) Clark School of Mines Research Institute North West of 12th and Bath St Golden, CO 80401 303-273-3550 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Clark School of Mines Research Institute 1500 Blake St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Non Sol b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO-570700061511915 | | 18. Containers | | 19. Total Quantity | 20. Unit |
| | | | | No. | Type | Cylinders | WT/Vol |
| | | | | | | 8-Yards | Tons |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name MARIC PHELAN | | | | Signature | | Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511958

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contractr Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 582361 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 2:56 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 2:56 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592154 | | |

00 Gross Weight 82,560.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 47,460.00 lb 23.73 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.73 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592154

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1071 Illinois St. Golden, CO 80401 303-273-0966 | | | | 5. Generating Location (if different) Golden School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0966 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Waste Transfer Station Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. | | | | 19. Total Quantity 7 Tons | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name <u>Steve Beaman</u> | | | | Signature <u>[Signature]</u> Month <u>8</u> Day <u>29</u> Year <u>07</u> | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name <u>Mark Phelan</u> | | | | Signature <u>[Signature]</u> Month <u>8</u> Day <u>29</u> Year <u>07</u> | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

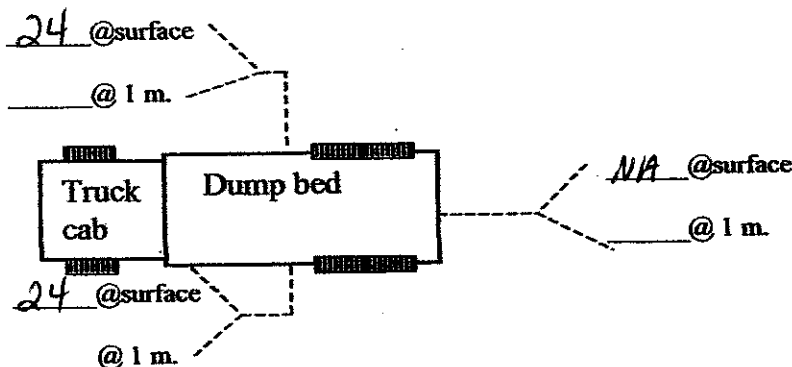
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1448 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

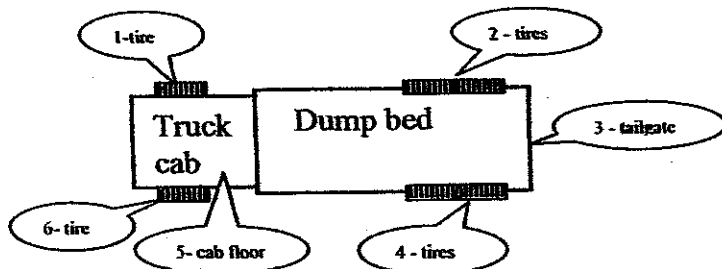
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2260 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592063

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|--------------------------------|------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1510 W. 1st St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-773-3095 | | | |
| 4. Phone () 303-273-5000 | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene Trucking #12. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foundry Landfill SOH, May 90 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Heavy Soil | | 17. Allied Waste Approval # and Exp. Date 2016707908 VS 1615 | | 18. Containers | | 19. Total Quantity 18 Yards | 20. Unit Tons |
| | | | | No. | Type | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Benjamin | | | | Signature | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Steve Benjamin | | | | Signature | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511981

FOOTHILLS LANDFILL
 2700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 328067 | 0000 |
| WEIGHMASTER | | |
| 7500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 3:05 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 3:05 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592063 | | |

Gross Weight 52,300.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 44,600.00 lb 22.30 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.30 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

12

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0592063

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3900 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene Trucking #12. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontiers Landfill 2200 Hwy 93 Golden, CO ACCOUNT # 000000 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm. Soil | | CO 167 070908 Y511815 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Denny Olson | | | | 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Denny Olson | | | | 8/29/07 | |

TRANSPORTER #2

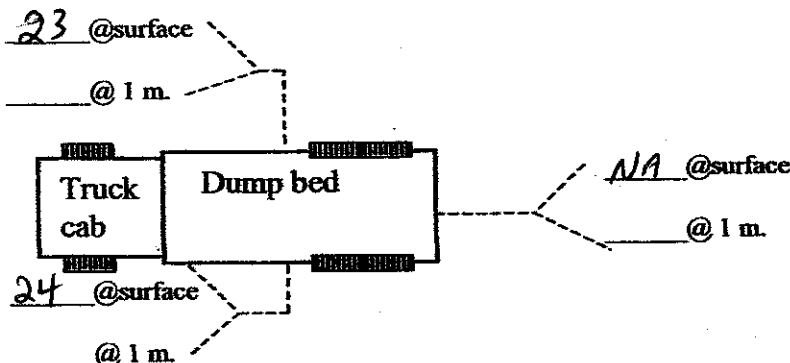
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1455 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

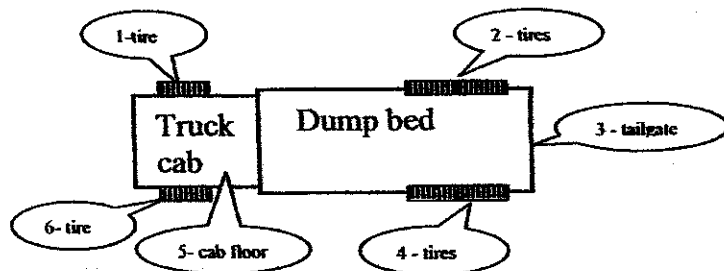
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592062

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 15700 Blaine St Golden, CO 80401 303-275-4000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 120th and Farish St Golden, CO 80401 303-275-4000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 1st St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Waste | | 0111111111111111 | | No. Type | |
| b. | | | | 18 | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| Yards | | 7.1 tons | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | | | Signature [Signature] Month Day Year 08/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

511983

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556371 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 3:14 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 3:14 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572062 | | |

Gross Weight 82,600.00 lb
 Tare Weight 35,700.00 lb Inbound --
 Net Weight 46,900.00 lb 23.45 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.45 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592062

Please print or type.

| | | | | | | | |
|--|--|---|--|--|------|-----------------------------|-------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1000 10th St Golden, CO 80401 303-275-2500 | | | | 5. Generating Location (if different) Front Range School of Business Institute North West of 12th and Birch St Golden, CO 80401 303-275-2500 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone * | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 1000 10th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Drums | 20. Unit Wt/Vol Gallons |
| | | | | No. | Type | | |
| a. Holes 124 | | 101707087511015 | | 18 | | Yards | Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 12/19/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Harold Colares Lopez | | | | Signature | | Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

TRANSPORTER #1

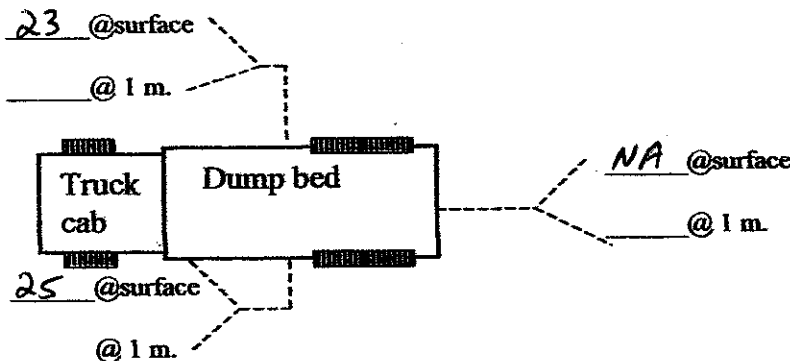
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1503 Surveyed by: Chicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

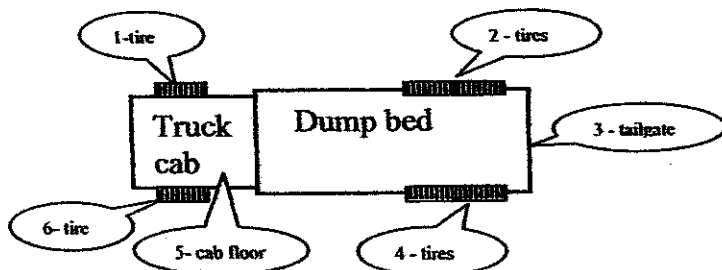
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592139

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Dahlia Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Heavy Soil | | 00167-07000-151101E | | 15 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkman | | | | Signature [Signature] Month Day Year 8/29/02 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 8/29/02 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

511971

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 80608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585377 | 0000 |
| WEIGHMASTER | | |
| PS0005, Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 3:22 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 3:22 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592139 | | |

Gross Weight 79,380.00 lb
 Tare Weight 34,400.00 lb Inbound -
 Net Weight 44,980.00 lb 22.49 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.49 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

A. M.



NON-HAZARDOUS WASTE MANIFEST

0592139

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Lincoln St. Orlando, CO 81401 303-773-0000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Center St Orlando, CO 81401 303-273-3888 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 E. 1st Ave. Orlando, CO 81401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Soil | | 001071200005511015 | | 19. Total Quantity 5 Drums | |
| b. | | | | 20. Unit WT/Vol | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | Signature | | Month Day Year 2 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Benjamin | | Signature | | Month Day Year 2 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

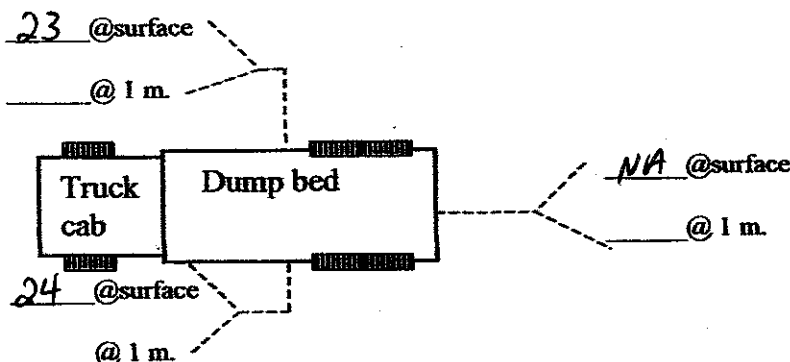
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1511 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

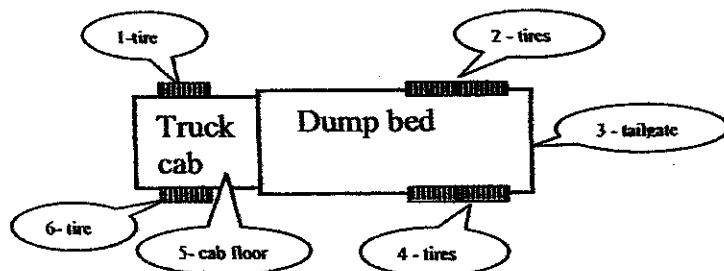
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592140

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1701 W. 1st St. Golden, CO 80401 303-273-3000 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Grand Golden, CO 80401 303-273-3000 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address T. S. D. Facility Golden, CO 80401 # 1047512 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | CO 187-17000-15-11-15 | | 18 X | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 10 Yards | | | | | |
| 20. Unit Wtr/Vol 1-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] | |
| | | | | Month Day Year 1 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jose A. Ruiz | | | | Signature [Signature] | |
| | | | | Month Day Year 1 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

511977

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 558363 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 3:36 pm |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 3:36 pm |
| VEHICLE | | ROLL OFF |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 592140 | | |

Gross Weight 76,890.00 lb
Tare Weight 35,580.00 lb
Net Weight 41,300.00 lb 20.65 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.65 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592140

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3636 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West at 12th and Birch St Golden, CO 80401 303-273-3636 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | 70167670001741375 | | 18 1 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benken | | | | Signature [Signature] Month Day Year 1 29 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jose W Ruiz | | | | Signature [Signature] Month Day Year 3 10 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

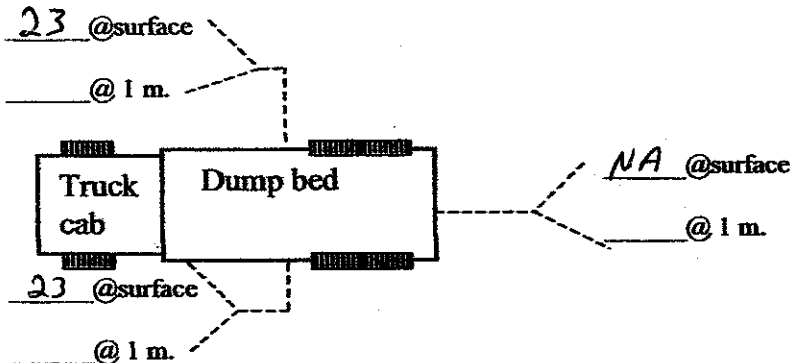
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1519 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

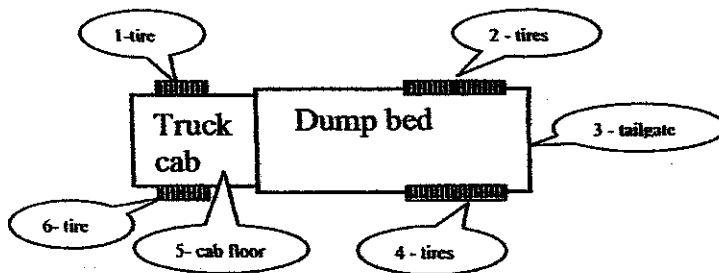
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592141

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Bluffs St Golden, CO 80401 303-273-3666 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Harvard Golden, CO 80401 303-273-3666 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontier Landfill 1500 Hwy 92 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Shrapnel | | COLL707000 1511915 | | 19. Total Quantity 5 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve B. H. H. | | | | Signature: [Signature] Month: 8 Day: 29 Year: 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: [Signature] | | | | Signature: [Signature] Month: 8 Day: 29 Year: 01 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | | | Signature: [Signature] Month: Day: Year: | |

GENERATOR'S COPY

COM000033

511978

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|---------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588354 | 0000 |
| WEIGHMASTER | | |
| S00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 3:37 pm |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 3:37 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592141 | | |

Gross Weight 76,540.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 29,560.00 lb 19.78 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.78 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592141

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1570 W. 1st St. Golden, CO 80401 303-273-3000 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1400 W. 1st St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Iron Soil | | CO LIT 00003 05/10/15 | | 7 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bohman | | Signature [Signature] | | Month Day Year 5/29/14 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Michael R. [Signature] | | Signature [Signature] | | Month Day Year 8/21/14 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

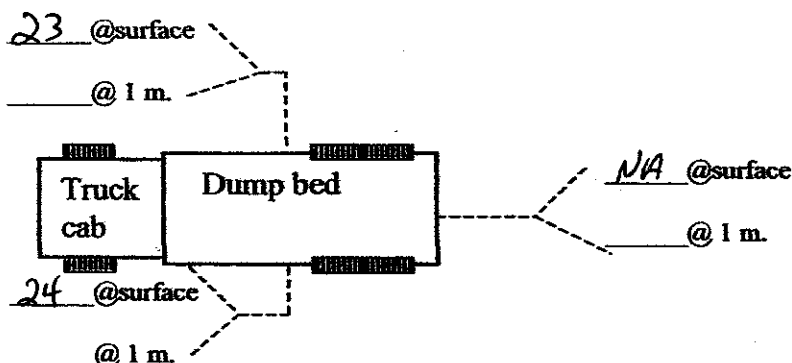
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1525 Surveyed by: CHicks, J Mattson

Trucking Company: Gniewe Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

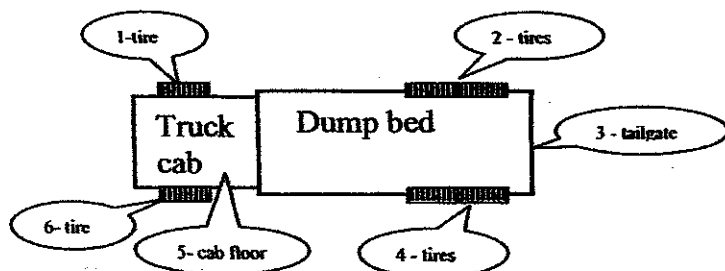
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

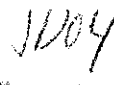
*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



0592142

| | | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|--|--------------------|-----------------|-----------|--------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address 1000 West 1st Colorado, CO 80401 303-273-4950 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-4950 | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 West 1st Golden, CO 80401 303-273-4950 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | | |
| a. Heavy Soil | | | 2015-07-01 to 12/31/15 | | No. Type | | 6 Yards | 7-Tons | | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Branson | | | | Signature | | | | Month 7 | Day 29 | Year 2015 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Dustin Harper | | | | Signature | | | | Month 8 | Day 10 | Year 2015 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |

COM00003

511980

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588586 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo E | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 3:40 pm |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 3:40 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592142 | | |

Gross Weight 75,680.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 40,040.00 lb 20.02 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.02 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592142

Please print or type.

| | | | | | | | |
|--|--|---|--|--|------|---------------------------|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1505 Illinois St Golden, CO 80401 303-270-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-270-3000 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1505 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| | | | | No. | Type | Containers | Containers |
| a. Heavy Soil | | 1505 Illinois St, Golden, CO 80401 | | | | 150000 | Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 2/29/03 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Hank Hays | | | | Signature | | Month Day Year 2/29/03 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

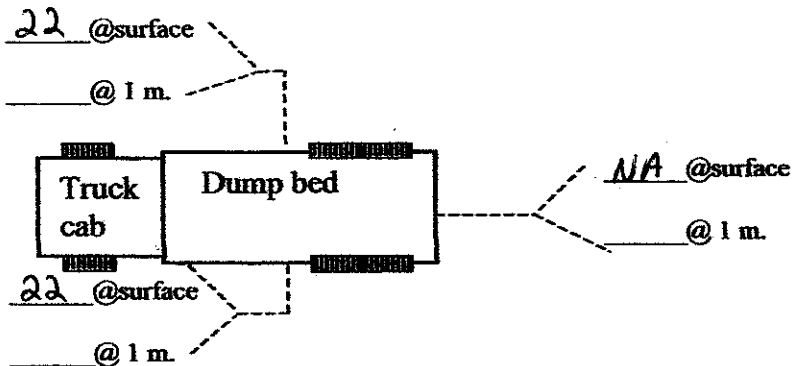
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1534 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

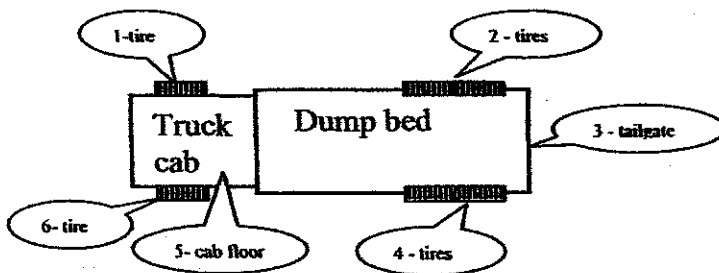
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 210 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592143

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1670 W. 13th St Golden, CO 80401 303-273-3054 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Davis Golden, CO 80401 303-273-3054 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Canada 2110 Hwy 20 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | COLE 070600 10/1/05 | | 19. Total Quantity 0.000000 Y Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Bertram | | Signature: [Signature] | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Fernando Barra | | Signature: [Signature] | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year | |

GENERATOR'S COPY

COM000033

511985

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 528391 | 0000 |
| WEIGHMASTER | | |
| ISCO056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 3:50 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 3:50 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592143 | | |

Gross Weight 79,960.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 43,380.00 lb 21.69 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.69 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



ALLIED WASTE



NON-HAZARDOUS WASTE MANIFEST

0592143

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1700 W. 12th St. Denver, CO 80202 Phone (303) 733-0000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and 10th St Golden, CO 80401 Phone (303) 273-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Research Institute Golden, CO 80401 Phone (303) 273-0000 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Harm Soil | | 3010000000000000 | | 19. Total Quantity 1 Yards | |
| b. | | | | 20. Unit Wt/Vol Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bertram | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Herrera | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

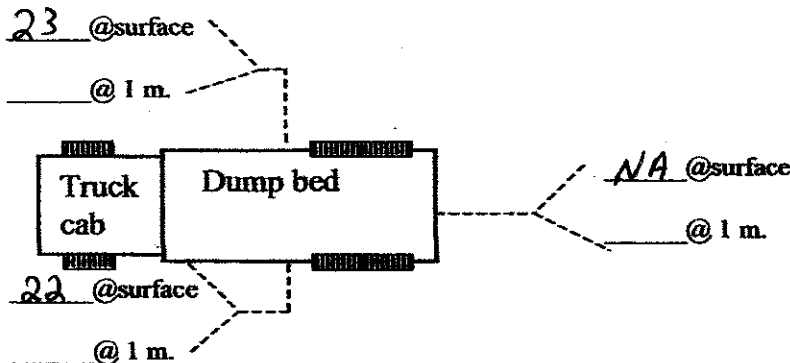
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1542 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

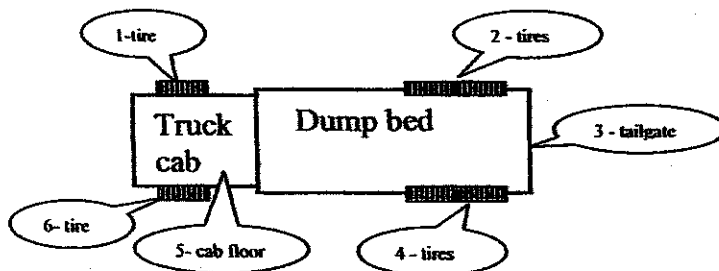
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592146

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|--|--|--|-----|------|--------------------|-----------------|----|---|---------|--------|--|--|--|--|--|--|--|--|--|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Illinois St. Golden, CO 80401 303-273-3900 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Green St. Golden, CO 80401 303-273-3900 | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Terra Verde 8000 N. Hwy 92 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td>18</td> <td>Y</td> <td>7 Yards</td> <td>1 Tons</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | 18 | Y | 7 Yards | 1 Tons | | | | | | | | | | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Y | 7 Yards | 1 Tons | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| Steve | | | | 6 29 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| Chuck Fay | | | | 08 29 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

511992

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588399 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 4:03 pm |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 4:03 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592146 | | |

Gross Weight 21,140.00 lb
 Tare Weight 36,540.00 lb Inbound --
 Net Weight 44,600.00 lb 22.30 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.30 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592146

Please print or type.

| | | | | | | | |
|--|--|--|--|--|--|--|-------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3993 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3993 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address F. Thomas Landfill 8570 E Hwy 90 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Normal Soil | | 17. Allied Waste Approval # and Exp. Date CO107032008 Y511515 | | 18. Containers | | 19. Total Quantity 0 Drums Y Yards Tons | 20. Unit Wt/Vol Gallons |
| | | | | No. Type | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 11 29 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Chuck Fay | | | | Signature | | Month Day Year 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name B. J. J. J. | | | | Signature | | Month Day Year 9 26 06 | |

TRANSPORTER #2

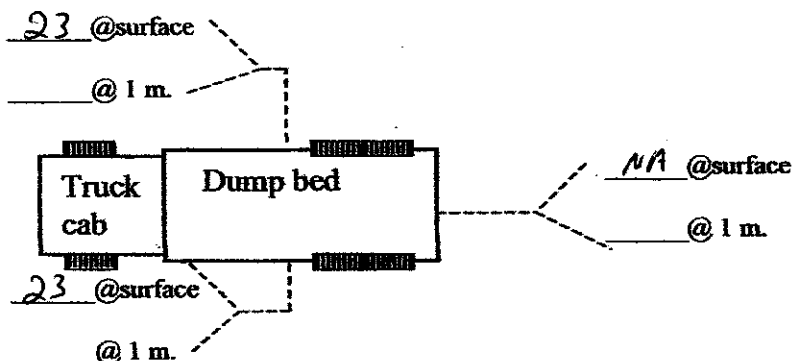
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1550 Surveyed by: CHicks, J Mattson

Trucking Company: Gniewe Truck license plate no./state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

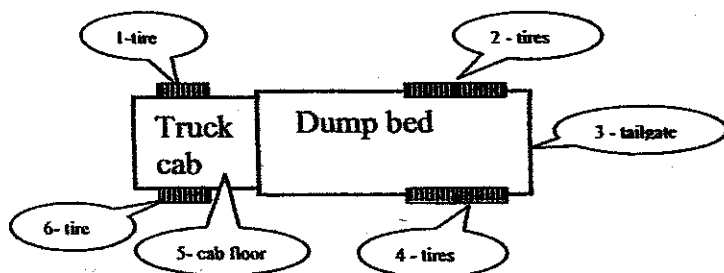
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

461
0592144

Please print or type.

| | | | | | | | | |
|--|--|--------------------------|--|--|----------------------------|---------------------------|--------------------------------|-----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1300 Hwy 101 Glenwood, CO 80540 303-273-3600 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 10th and Arch St Golden, CO 80401 303-273-3600 | | | | |
| | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1300 Hwy 101 Glenwood, CO 80540 | | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Nickel Sulfide b. c. d. | | | 17. Allied Waste Approval # and Exp. Date CO 18707009 10/1/95 | | 18. Containers | | 19. Total Quantity 1000 lbs | 20. Unit Wt/Vol 1000 lbs |
| | | | | | No. | Type | | |
| | | | | | 16 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 8/29/97 | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature | | Month Day Year 8/29/97 | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | | |

GENERATOR'S COPY

00000033

511988

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 589403 | GRID 0000 |
| WEIGHMASTER K500036 Barbara Jo S | | |
| DATE IN 29 August 2007 | | TIME IN 4:09 am |
| DATE OUT 29 August 2007 | | TIME OUT 4:09 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592144 | ORIGIN | |

Gross Weight 80,040.00 lb
Tare Weight 34,260.00 lb
Net Weight 45,780.00 lb 22.89 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.89 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

461
0592144

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Alameda St. Suite 100 Denver, CO 80202 (303) 733-1001 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute 1600 West of 120th and Grand St. Golden, CO 80641 (303) 273-3906 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 W. 14th St. Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Non-Hal | | 10118/07/08/10/11/12 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month Day Year 10/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] Month Day Year 10/30/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

TRANSPORTER #1

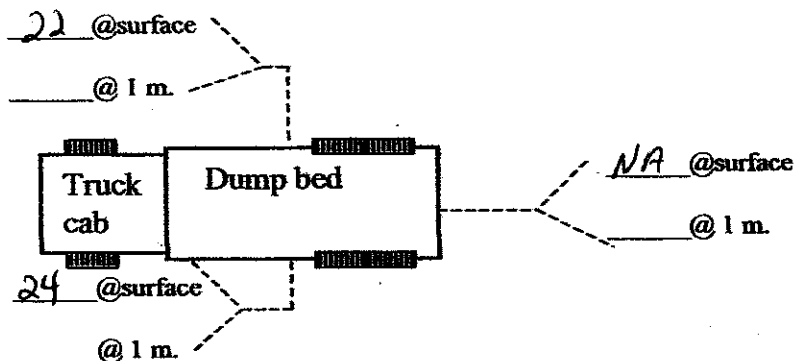
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1558 Surveyed by: CHicks, J Mattson

Trucking Company: Gniewe Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

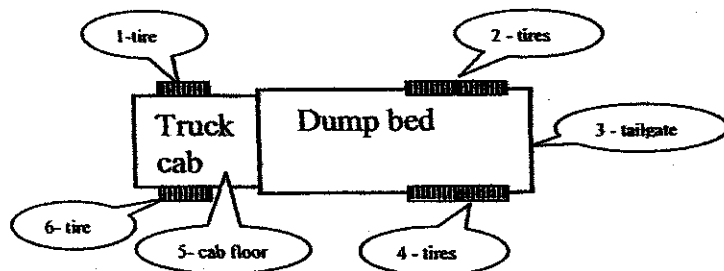
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

24
0592052

Please print or type.

| | | | | | | | |
|--|--|--|--|---|--|-------------------------------|---------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Platte St Golden, CO 80401 303-273-3346 | | | | 5. Generating Location (if different) School of Mines Research Institute North West on 12th and North Golden, CO 80401 303-273-3346 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 3000 Hwy 92 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Plaster Stud b. c. d. | | 17. Allied Waste Approval # and Exp. Date 00167 07X40 1511315 | | 18. Containers | | 19. Total Quantity 6 Yards | 20. Unit Wt/Vol 7 Tons |
| | | | | No. Type | | | |
| | | | | 18 Y | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] | | Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1200 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

KY 311003

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 528406 | 0000 |
| WEIGHMASTER | | |
| 8800056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 4:14 pm |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 4:14 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592052 | | |

Gross Weight 83,660.00 lb
 Tare Weight 37,200.00 lb Inbound -
 Net Weight 46,460.00 lb 23.23 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.23 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE Kerf



NON-HAZARDOUS WASTE MANIFEST

24
0592052

Please print or type.

| | | | | | | |
|--|--|--------------------------|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-275-3200 | | | | 5. Generating Location (if different) University Service of Mines Research Institute North West of 13th and Lincoln St Golden, CO 80401 303-275-3200 | | |
| 4. Phone () | | | | 6. Phone () | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address F-1000000000 2000 1st St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | | No. Type | |
| a. Non-hazardous | | | 10167000000000000000 | | 18 Y | |
| b. | | | | | | |
| c. | | | | | | |
| d. | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | |
| Printed/Typed Name Steve Benner | | | Signature [Signature] | | | |
| Month Day Year 8/29/07 | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name Ken Shannon | | | Signature Ken Shannon | | | |
| Month Day Year 08-29-07 | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | |
| Printed/Typed Name | | | Signature | | | |
| Month Day Year | | | | | | |
| 26. Discrepancy Indication Space | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | |
| Printed/Typed Name | | | Signature | | | |
| Month Day Year | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

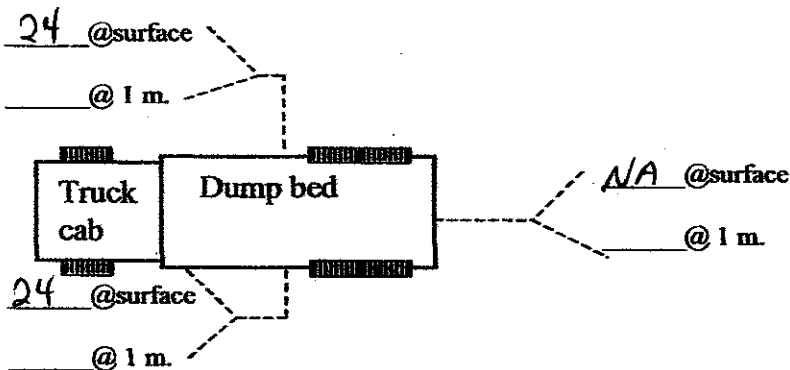
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1605 Surveyed by: CHicks, J Mattson
 Trucking Company: Gniere Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

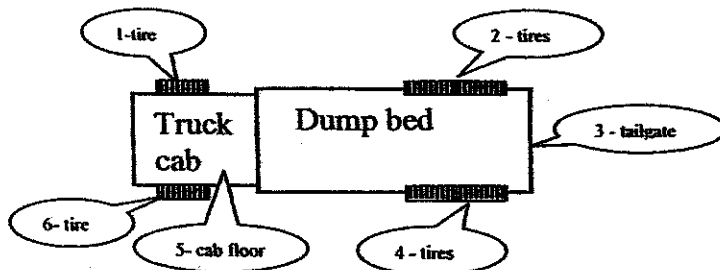
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592145

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|--|--|---------|-----------|--|--|---------|--------|--|--|--|--|--|--|--|--|--|--|--|--|
| 3. Generator's Name and Mailing Address 1000 W. 5th St. Golden, CO 80401 303-273-1000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Broadway Golden, CO 80401 303-273-1000 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Pueblo Mills 6200 Hwy 58 Pueblo, CO 81001 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Metal Rod | | 00157070000000000000 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>5 Drums</td> <td>5 Gallons</td> </tr> <tr> <td></td> <td></td> <td>7 Yards</td> <td>1 Tons</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 5 Drums | 5 Gallons | | | 7 Yards | 1 Tons | | | | | | | | | | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5 Drums | 5 Gallons | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7 Yards | 1 Tons | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steve Brannon | | | | 8 29 07 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mark Phelan | | | | 8 29 07 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

512000

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588407 | 0000 |
| WEIGHMASTER | | |
| R500056 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 4:20 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 4:20 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592145 | | |

Gross Weight 82,820.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 47,720.00 lb 23.86 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.86 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592145

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 10000 N. 1st St. DENVER, CO 80231 303 273-1000 | | | | 5. Generating Location (if different) 10000 N. 1st St. DENVER, CO 80231 303 273-1000 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 N. 1st St. DENVER, CO 80231 | | 17. Allied Waste Approval # and Exp. Date 2010-01-01 to 2010-12-31 | | 18. Containers No. Type | |
| 16. Waste Shipping Name and Description a. Metal Scrap | | 19. Total Quantity 1 Yards | | 20. Unit WT/Vol | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brennan | | Signature | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

COM000033

Pile B 8/29/07

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|------|
| Griene 8 | 8/29/07 | 0700 | 0715 | 18 | 80 |
| Murray 461 | | 0700 | 0721 | | 77.8 |
| Griene 24 | | 0700 | 0727 | | 81.6 |
| Griene 23 | | 0700 | 0733 | | 82.4 |
| Griene 12 | | 0700 | 0740 | | 82.0 |
| Collazo 13 | | 0700 | 0748 | | 81.4 |
| Marquez 961 | | 0710 | 0757 | | 82.2 |
| JDO1 | | 0710 | 0803 | | 79.3 |
| Ruiz 95 | | 0720 | 0810 | | 77.9 |
| Marquez 96 | | 0720 | 0816 | | 80.0 |
| JD 04 | | 0720 | 0822 | | 74.5 |
| Griene 8 | | 0820 | 0830 | | 83.1 |
| Murray 461 | | 0825 | 0837 | | 78.6 |
| Griene 24 | | 0830 | 0843 | | 81.2 |
| Griene 23 | | 0835 | 0849 | | 81.7 |
| Griene 12 | | 0840 | 0856 | | 83.3 |
| Collazo 13 | | 0900 | 0910 | | 80.9 |
| Marquez 961 | | 0905 | 0920 | | 78.8 |
| JDO1 | | 0920 | 0926 | | 76.8 |
| Ruiz 95 | | 0925 | 0931 | | 76.5 |

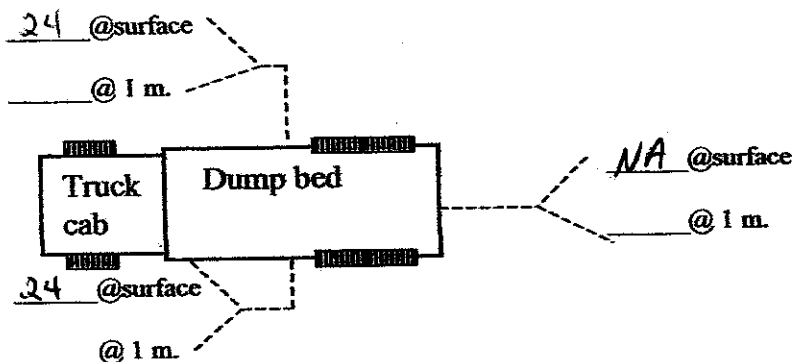
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|------|---------|----------|----------------------------|------|
| Marquez 96 | 8/29 | 0925 | 0937 | 18 | 78.2 |
| JD 04 | - | 0935 | 0943 | | 75.3 |
| Grieve 8 | - | 0940 | 0951 | | 81.6 |
| Murray 461 | - | 0945 | 0958 | | 79.5 |
| Grieve 24 | - | 0950 | 1005 | | 81.7 |
| Grieve 23 | - | 0955 | 1013 | | 83.3 |
| Grieve 12 | - | 0955 | 1020 | | 81.8 |
| Collazo 13 | - | 1005 | 1027 | | 81.1 |
| Marquez 961 | - | 1027 | 1035 | | 80.2 |
| JD 01 | - | 1035 | 1043 | | 80.1 |
| Ruiz 95 | - | 1040 | 1047 | | 79.0 |
| Marquez 96 | - | 1045 | 1052 | | 79.0 |
| JD 04 | - | 1050 | 1059 | | 75.5 |
| Grieve 8 | - | 1050 | 1107 | | 84.1 |
| Murray 461 | - | 1100 | 1117 | | 80.9 |
| Grieve 24 | - | 1105 | 1123 | | 80.7 |
| Grieve 23 | - | 1110 | 1130 | | 81.6 |
| Grieve 12 | - | 1115 | 1138 | | 83.5 |
| Collazo 13 | - | 1130 | 1149 | | 80.7 |
| Marquez 961 | ↓ | 1140 | 1201 | ↓ | 81.1 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0715 Surveyed by: CHicks, J Mattson
 Trucking Company: Gniere Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

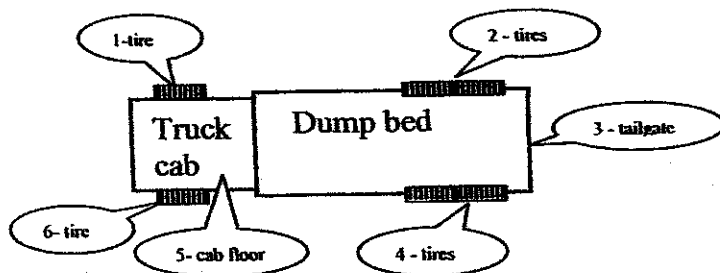
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592196

Please print or type

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1001 River St Golden, CO 80401 303-273-3900 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Barth St Golden, CO 80401 303-273-3900 | | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 1st St Golden, CO 80401 | | 14. US EPA ID Number | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Warm Soil | | C-1167 070006 (6/1/315) | | 18 Y 1 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 12 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Fay | | | | 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

011500

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558192 | 0000 |
| WEIGHMASTER | | |
| B000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 7:30 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 7:30 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592196 | | |

00 Gross Weight 80,020.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 43,480.00 lb 21.74 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.74 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592196

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontier Landfill 5500 Hwy 90 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Sol | | 071107 070904 Y511915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons | | | | | |
| 20. Unit Wt/Vol 6 Yards 1-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Fox | | | | 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Curtis J. [unclear] | | | | 2 2 07 | |

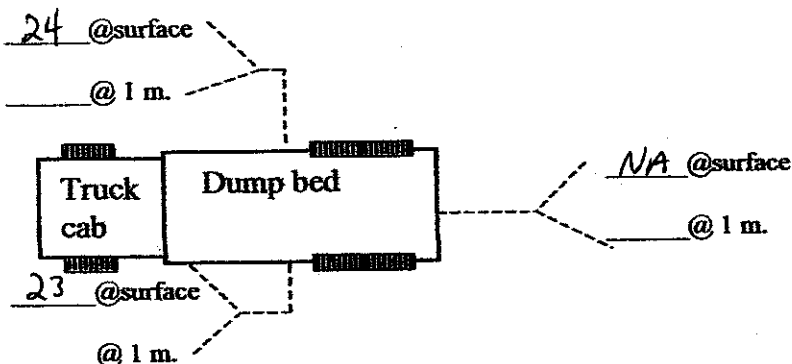
TRANSPORTER #2

COM900033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0721 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

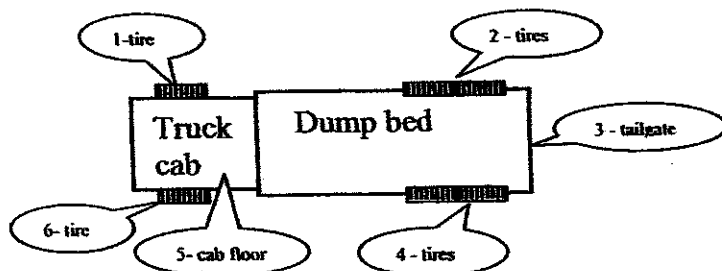
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

461
0592195

Please print or type.

| | | | | | | | | | | | |
|--|--|---|---|----------------------------|--|--------------------|--|-----------------|--|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Birch St. Golden, CO 80401 303-772-1946 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-772-1946 | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Tenneco Lumber 2000 Hwy 142 Golden, CO 80401 (Allied Waste # 58540156) (Company's Agent or Owner) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Burn Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 157-00088-151-015 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | No. | | Type | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature | | Month 8 | | Day 29 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature | | Month 8 | | Day 29 | | Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |

GENERATOR'S COPY

COM09033

311803

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 258075 | 0000 |
| WEIGHMASTER | | |
| B500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 7:39 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 7:37 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592195 | | |

Gross Weight 77,720.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 43,520.00 lb 21.76 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.76 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

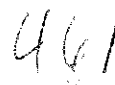
CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



0592195

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address 1500 E. 1st St. Denver, CO 80202 303 775-1000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West at 12th and Lincoln Denver, CO 80202 303 775-1000 | | | | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Hazardous Waste 1500 E. 1st St. Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| a. Heavy Metal | | EPA ID # 1000000000000000 | | No. | Type | Drums | Drums | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Berkman | | | | Signature | | Month 8 | Day 29 | Year 00 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Mike Harris | | | | Signature | | Month 8 | Day 29 | Year 00 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

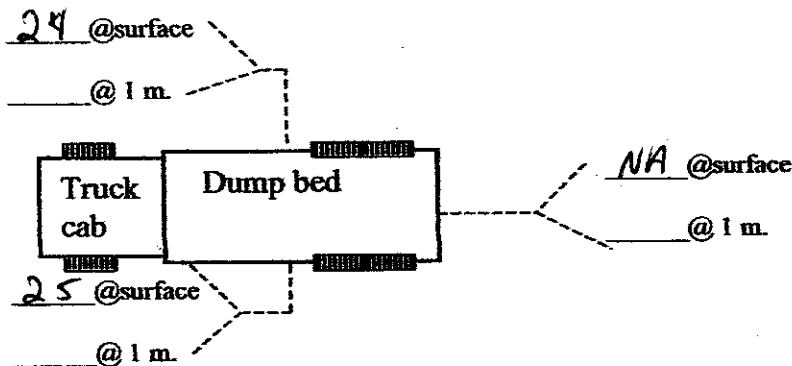
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0727 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

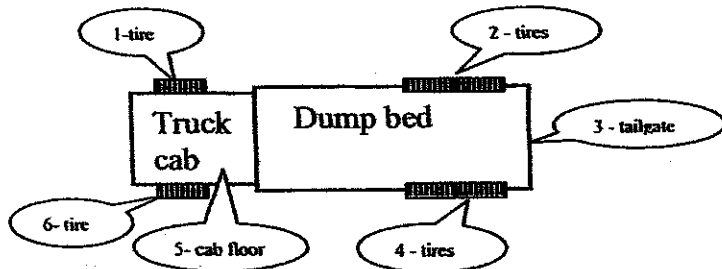
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

24
0592187

Please print or type.

| | | | | | |
|--|--|--------------------------|---|--------------|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Golden, CO 80401 303-279-3888 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-279-3888 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name Joe Grieve trucking | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 1000 May St Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers No. Type |
| a. Metal Slat | | | CO 187 00000 Y811010 | | 18 Y 1 Yards 1 Tons |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | | Signature [Signature] | | Month Day Year 8/29/07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | | Signature [Signature] | | Month Day Year 08/29/07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

GENERATOR'S COPY

COM000033

24 511700

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558102 | 0000 |
| WEIGHMASTER | | |
| 5500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 7:45 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 7:45 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592187 | | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

Gross Weight 51,640.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 44,440.00 lb 22.22 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.22 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

KERS



24

24

NON-HAZARDOUS WASTE MANIFEST

0592187

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|---|--|--|-----|------|--------------------|-----------------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address School of Mines Research Institute North West of 17th and Birch St. Golden, CO 80401 303-271-0000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 17th and Birch St. Golden, CO 80401 303-271-0000 | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address School of Mines Research Institute Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | a. | | | | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | 18 Y Yards | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature Steve Brinkman | | Month Day Year 8/29/07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | Signature Ken Shannon | | Month Day Year 8/29/07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

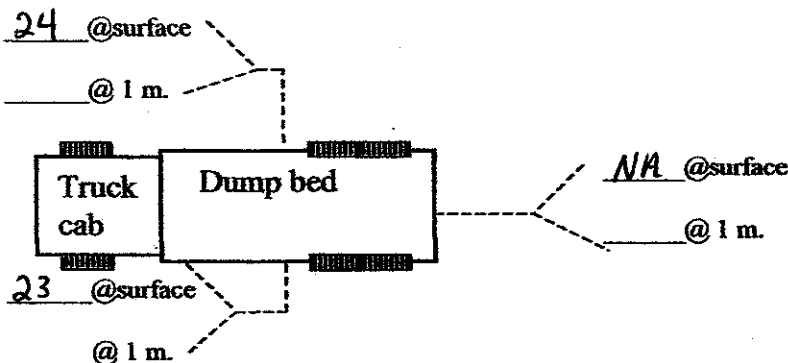
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0733 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

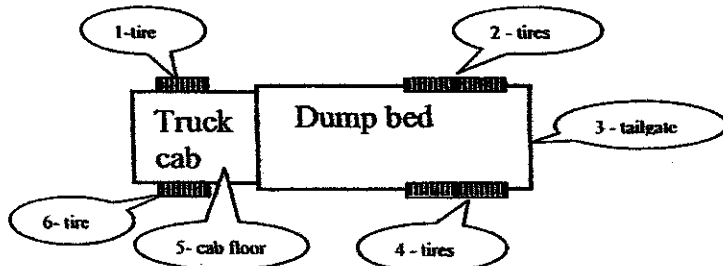
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592188

Please print or type.

| | | | | | |
|--|--|--|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1400 Lincoln St. Golden, CO 80401 303-272-6000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-272-6000 | | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1400 Lincoln St. Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date 05/17/00-06/06/01 | | 18. Containers No. Type | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 19. Total Quantity 1 Yards | | 20. Unit Wt/Vol Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8/19/01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | Signature | | Month Day Year 8/29/01 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

GOM000033

511704

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588100 | 0000 |
| WEIGHMASTER | | |
| 09/00/05 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 7:55 AM |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 7:55 AM |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592188 | | |

Gross Weight 82,400.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 47,300.00 lb 23.65 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.65 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592198

Please print or type.

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1300 Illinois St Columbus, OH 43201 360-273-3100 | | | 5. Generating Location (if different) Ohio School of Mines Research Institute North West at 12th and Birch St Columbus, OH 43201 360-273-3100 | | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1300 Illinois St Columbus, OH 43201 | | 14. US EPA ID Number | | 16. Waste Shipping Name and Description | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non-Sol | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| b. | | | | 19. Total Quantity | |
| c. | | | | 20. Unit Wt/Vol | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mark Phelan | | | | 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

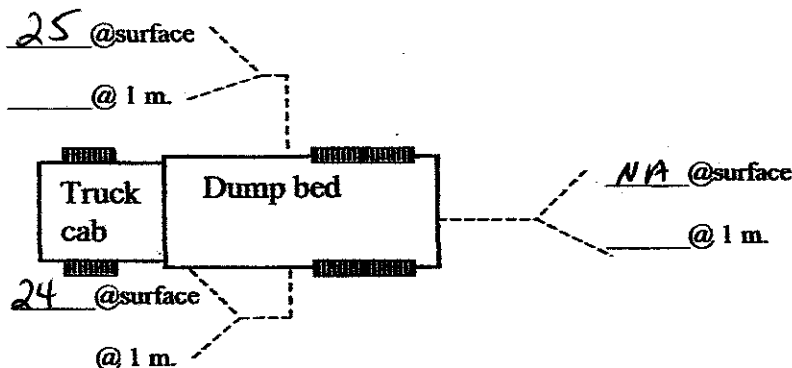
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0740 Surveyed by: Chicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

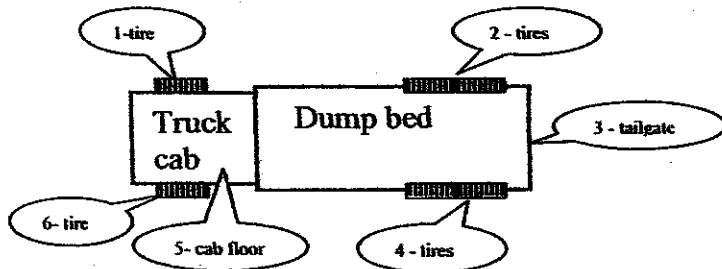
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

12
0592189

Please print or type.

| | | | | | |
|--|--|--------------------------|--|---|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 (Boulevard) Golden, CO 80401 303-773-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-773-3000 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name B. Lee Trucking | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado Landfill 3000 Hwy 90 Golden, CO 80401 | | 14. US EPA ID Number | | 17. Allied Waste Approval # and Exp. Date | |
| 16. Waste Shipping Name and Description | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| a. Flammable Sol | | No. Type | | Cal Gallons | Cal Gallons |
| b. | | 18 | | 1 Yards | 1 Yards |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month | Day Year |
| Steve Brinkman | | [Signature] | | 12 | 29 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month | Day Year |
| Steve Brinkman | | [Signature] | | 12 | 29 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month | Day Year |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month | Day Year |
| | | | | | |

GENERATOR'S COPY

CCM000033

611795

12.

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588107 | 0000 |
| WEIGHMASTER | | |
| 1900054 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 7:58 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 7:58 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592189 | | |

Gross Weight 82,020.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 44,320.00 lb 22.16 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.16 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0592189

Please print or type.

| | | | | | | | |
|--|--|---|---|----------------------------|------|------------------------|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3896 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3896 | | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name Brewer Trucking #112 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Footnote Landfill 8000 Hwy 92 Golden, CO - ACCOUNT # 00000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| | | | | No. | Type | 0.0000 | 0.0000 |
| a. Nam Soil | | CO L57 070208 Y511946 | | 18 | | 7 Yards | 1 Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year 8/29/07 | |

TRANSPORTER #2

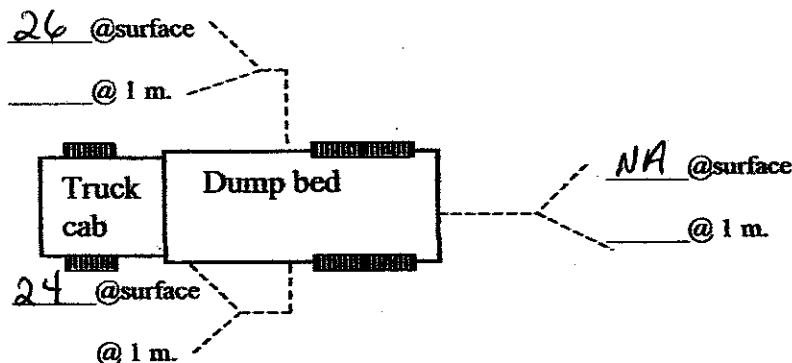
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0748 Surveyed by: CHicks, J Mattson

Trucking Company: Grievle Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

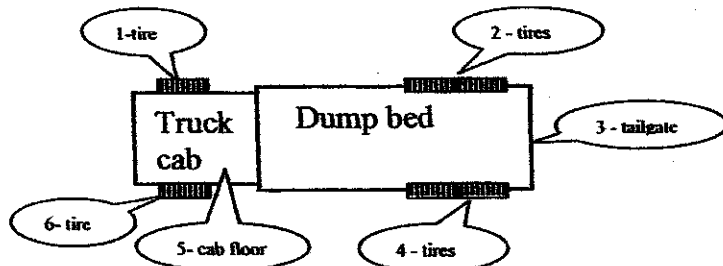
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 8 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592190

13

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1900 Lincoln St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Evans St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 28901 Hwy 90 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | 21. Facility's Phone | |
| a. | | 20157020001511015 | | 7 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benkman | | | | 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| David Collozo Lopez | | | | 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511709

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|---------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 589111 | 0000 |
| WEIGHMASTER | | |
| 800056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 8:05 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 8:05 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592190 | | |

Gross Weight 81,440.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 45,740.00 lb 22.87 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.87 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



ALLIED WASTE



NON-HAZARDOUS WASTE MANIFEST

13
0592190

Please print or type.

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1502 W. 8th St Garden, CO 81401 303-273-1460 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 81401 303-273-0900 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Garden, CO 81401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Steel | | 701-874-0001 1/1/07 | | 19. Total Quantity 7 Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Marco Collozo Lopez | | | | Signature [Signature] Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

TRANSPORTER #1

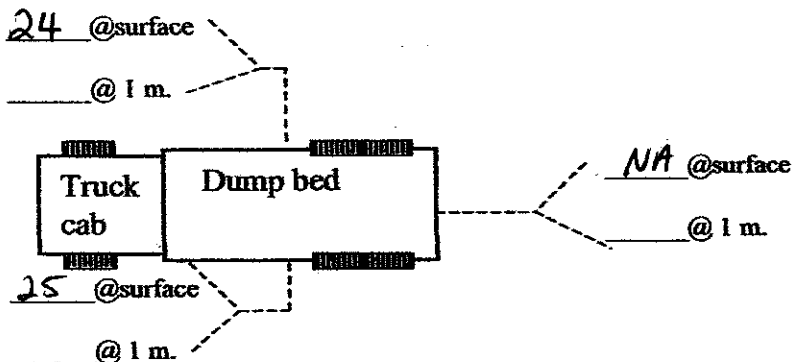
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0757 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

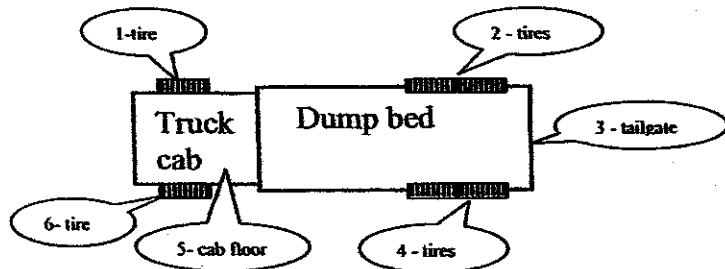
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592191

961

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Union St Golden, CO 80401 303-271-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Decatur Golden, CO 80401 303-271-3900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1700 1st Ave Golden, CO 80401 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Iron Ore | | 00187-0700015-1915 | | Cylinders | |
| b. | | | | Cylinders | |
| c. | | | | Cylinders | |
| d. | | | | Cylinders | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | | | Signature | |
| STEVE SCHMIDT | | | | [Signature] | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name | | | | Signature | |
| [Signature] | | | | 8 20 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

561711

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80606
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contracts: YE11915

| | | |
|----------------------|---------|----------|
| SITE | TICKET | GRID |
| 01 | YE11915 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 8:17 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 8:17 am |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 592191 | | |

Gross Weight 82,200.00 lb
Tare Weight 34,400.00 lb
Net Weight 47,800.00 lb 23.90 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.90 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592191

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Golden, CO 80401 Phone (303) 273-3000 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Bach St Golden, CO 80401 Phone (303) 273-3000 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Hwy 30 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Schuman | | | | 8/29/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| James A. Schuman | | | | 8/29/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

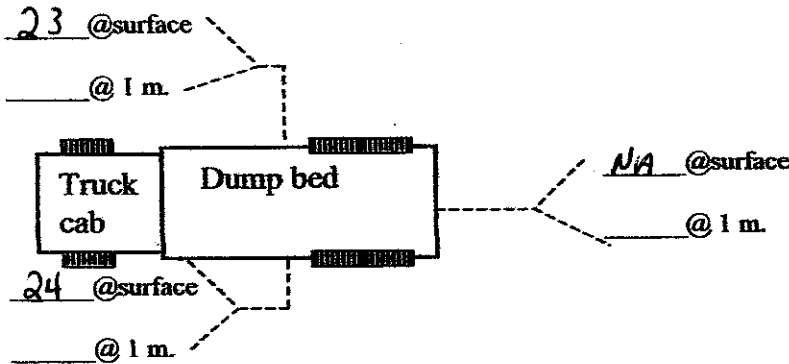
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0803 Surveyed by: CHicks, J Mattson

Trucking Company: Griev Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

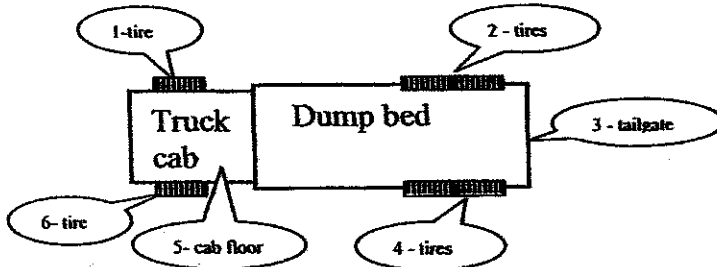
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

JD01
0592192

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Evans St Golden, CO 80401 303-273-3856 | | | | 5. Generating Location (if different) 5500 W. School of Mines Research Institute North West of 12th and Brown St Golden, CO 80401 303-273-3856 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1501 Evans St Golden, CO 80401 303-273-3856 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 20. Unit Wt/Vol | |
| | | | | No. Type | |
| a. More Soil | | 071027-08302-1511015 | | 18 4 1-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| JOSE W Ruiz | | | | 8 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511714

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401
 Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 528116 | 0000 |
| WEIGHMASTER | | |
| 5200054 Banters Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 8:22 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 8:22 am |
| VEHICLE | | ROLL OFF |
| Y511715 | | |
| REFERENCE | ORIGIN | |
| 572192 | | |

Gross Weight 77,260.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 43,680.00 lb 21.84 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.84 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

JDO1
0592192

Please print or type

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Myers St Golden, CO 80401 303-273-6806 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Broadway Golden, CO 80401 303-273-6806 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Columbia Gas Co 2000 W. 1st St Golden, CO 80401 # 303-273-6806 (check or advise) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Oil | | ALLIED WASTE 07/01/15 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity A. Drums B. Cylinders | | | | | |
| 20. Unit Wt/Vol A. Drums B. Cylinders | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | Signature | | Month Day Year 8/31/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

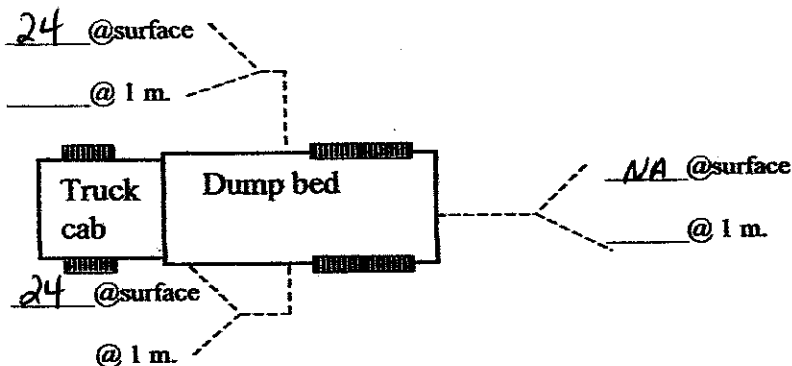
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0810 Surveyed by: CHicks, J Mattson

Trucking Company: Grievle Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

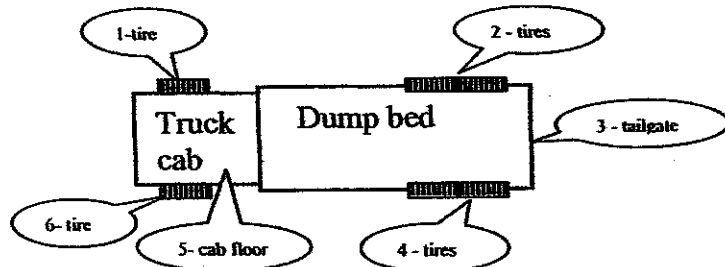
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592194

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3500 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Grand Golden, CO 80401 303-273-3500 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 17th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Fuel | | CO 167 070008 10/1/95 | | 19. Total Quantity 0 Drums 0 Gallons | |
| b. | | | | 20. Unit Wt/Vol 0 Gallons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 6/29/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Long | | | | 3/2/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511717

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588119 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 8:27 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 8:27 am |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 592194 | | |

Gross Weight 77,920.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 40,940.00 lb 20.47 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.47 | TN | SO-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592194

Please print or type.

| | | | | | | | | | | | |
|--|--|--|--|---|--|--------------------|--|-----------------|--|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address 1000 W. 1st St. Denver, CO 80202 303-733-3524 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 28th and Bruce St Golden, CO 80401 303-773-3524 | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 W. 1st St. Denver, CO 80202 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Iron Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO187 03/02/05-01/01/07 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | No. Type | | Yards | | Tons | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month 1 | | Day 2 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month 5 | | Day 2 | | Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |

TRANSPORTER #1

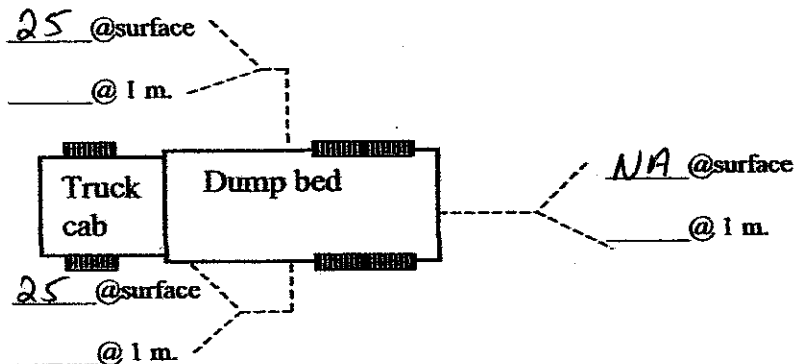
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0816 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

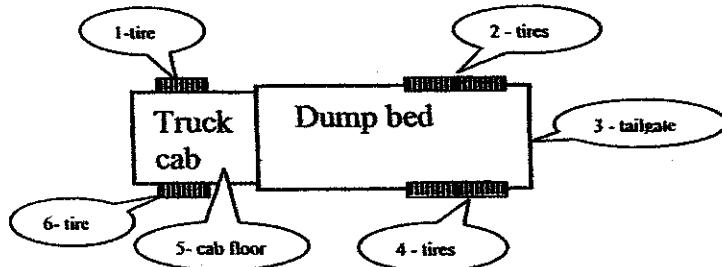
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592193

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|--|------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Iron Ore b. c. d. | | 17. Allied Waste Approval # and Exp. Date 101727/008751010 | | 18. Containers | | 19. Total Quantity 100000 Pounds | 20. Unit Wt/Vol Pounds |
| | | | | No. | Type | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 8/29/02 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Fernando Luna | | | | Signature | | Month Day Year 8/29/02 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511722

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 506124 | 0000 |
| WEIGHMASTER | | |
| BSC0054 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 8:02 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 8:32 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592193 | | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

Gross Weight 77,960.00 lb
 Tare Weight 36,590.00 lb
 Net Weight 43,360.00 lb 21.69 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.69 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

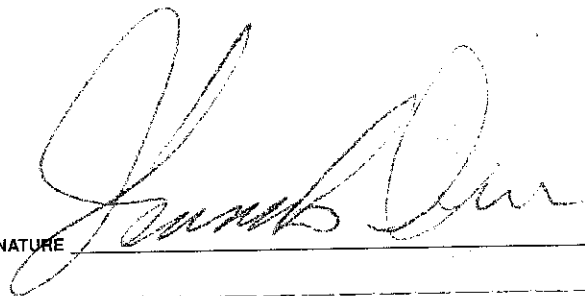
NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE






NON-HAZARDOUS WASTE MANIFEST

0592193

Please print or type.

| | | | | | |
|--|--|---|---|-------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1100 Illinois St Jordan, CO 80401 303-273-3500 | | | 5. Generating Location (if different) School of Mining Research Institute North West of 12th and Birch St Jordan, CO 80401 303-273-3500 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Proctor & Kirtley 2800 Hwy 30 Golden, CO 80601 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | C01670/008/051010 | | 19. Total Quantity 6 Drums | |
| b. | | | | 20. Unit Wt/Vol 55 Gallons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benken | | [Signature] | | 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Luna | | [Signature] | | 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

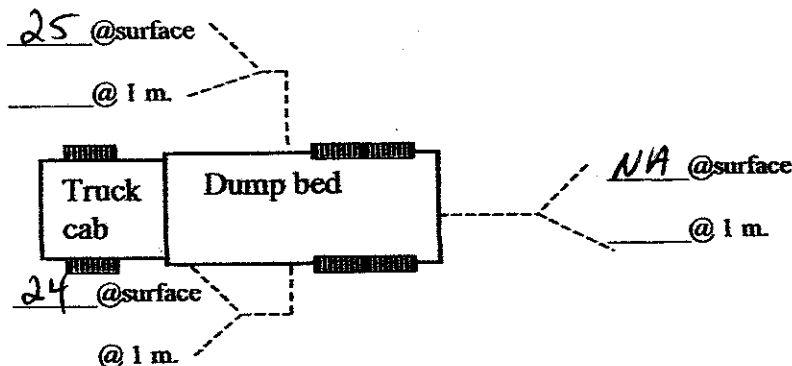
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0822 Surveyed by: CHicks, J Matson

Trucking Company: Griev Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

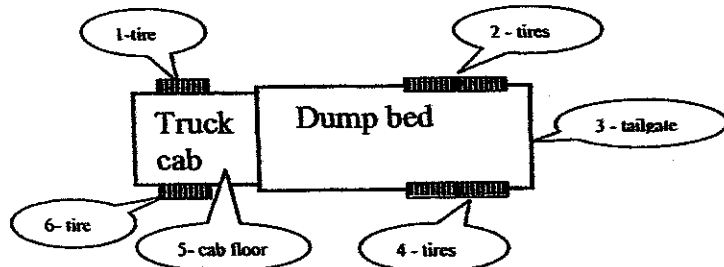
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592206

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | |
|--|--|--|---|---|---------------------------|-----|------|--|--|--|--|--|--|--|--|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 W. 13th St. Golden, CO 80401 303-273-3994 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3994 | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 W. 13th St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | |
| 16. Waste Shipping Name and Description a. Heavy Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date 001A700000 05/13/15 | | 18. Containers | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table> | | No. | Type | | | | | | | | |
| | | | | No. | Type | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 19. Total Quantity 4 Yards | | | | | | | | | | | | | | | |
| 20. Unit Wt/Vol 1 Tons | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | Signature [Signature] | | Month Day Year 8/29/07 | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature [Signature] | | Month Day Year 8/29/07 | | | | | | | | | | |

GENERATOR'S COPY

COM000033

511726

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588128 | 0000 |
| WEIGHMASTER | | |
| 6000006 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 8:39 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 8:39 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592206 | | |

Gross Weight 74,540.00 lb
Tare Weight 35,640.00 lb
Net Weight 38,900.00 lb 17.45 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.45 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0592206

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address University of Arizona 1000 N. Santa Rita Ave. Tucson, AZ 85724-0001 Phone (520) 273-3990 | | | | 5. Generating Location (if different) University of Arizona Research Institute North West 1st St and Grant St Tucson, AZ 85701 Phone (520) 273-3990 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address University of Arizona 1000 N. Santa Rita Ave. Tucson, AZ 85724-0001 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Inert Soil | | 18. No. Type | | 19. Quantity | |
| b. | | 18. No. Type | | 19. Quantity | |
| c. | | 18. No. Type | | 19. Quantity | |
| d. | | 18. No. Type | | 19. Quantity | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benham | | [Signature] | | 12/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 12/29/07 | |

TRANSPORTER #1

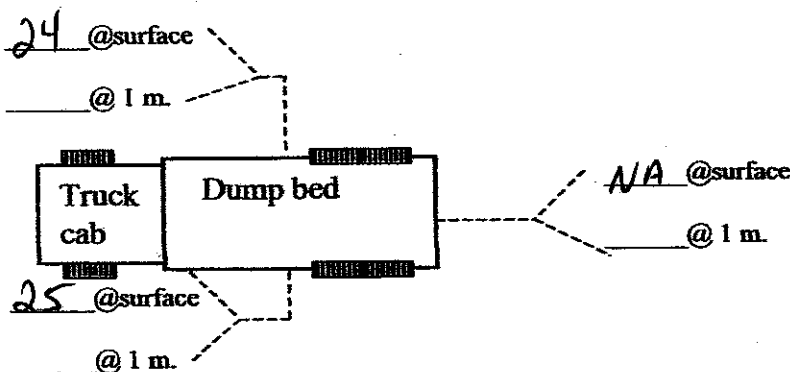
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0830 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

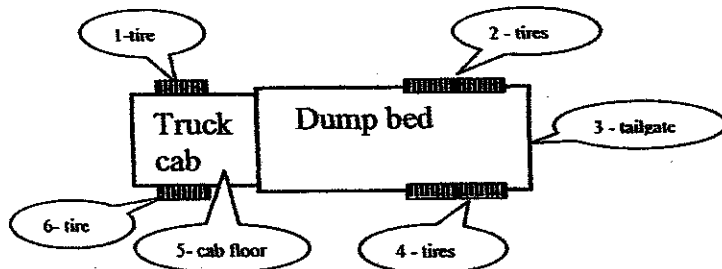
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

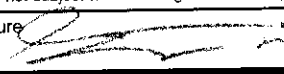
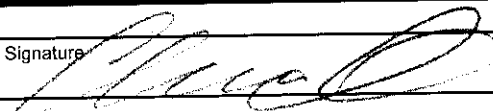
| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|--------------|---|---------------------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1570 Ditch St Golden, CO 80401 303-273-3006 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 13th and Locks Golden, CO 80401 303-273-3006 | | | | | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Furniture Recycling 2540 Hwy 88 Golden, CO 80401 # 900013 a Colorado Springs - (Hazard) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Normal Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 1870700001-041015 | | 18. Containers | | 19. Total Quantity 0.000000 Yards | 20. Unit Wt/Vol 0.000000 T-Tons | |
| | | | | No. | Type 18 4 | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature  | | Month 8 | Day 29 | Year 00 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature  | | Month 08 | Day 29 | Year 00 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

COMB00035

GENERATOR'S COPY

511733

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586135 | 0000 |
| WEIGHMASTER | | |
| 2500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 8:42 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 8:48 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592205 | | |

Contract: Y511915

Gross Weight 23,120.00 lb
 Tare Weight 34,540.00 lb Inbound -
 Net Weight 46,580.00 lb 23.27 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.27 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592295

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footfalls Laundry 8000 Hwy 92 Golden, CO ACCOUNT # 900011 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 00157070900 1511015 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Drums Y-Yards T-Tons | | | | | |
| 20. Unit Wt/Vol + # | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 08/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #2

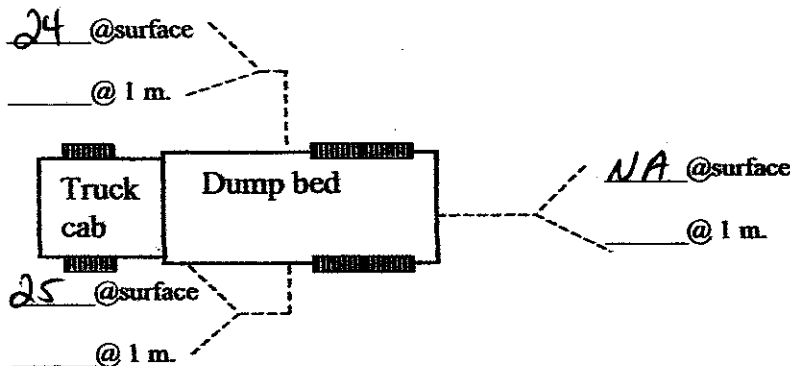
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0837 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

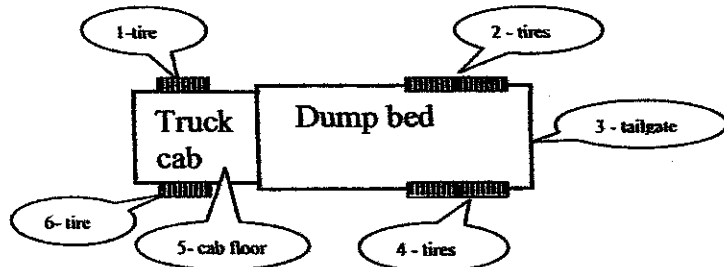
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592204

461

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Golden, CO 80401 303-273-0805 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-0808 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Hwy 95 Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers No. Type | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Alum Soil | | 18 | | Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 7/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike [Signature] | | [Signature] | | 8/1/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

00000033

312735

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 758137 | 0000 |
| WEIGHMASTER | | |
| 6500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 8:53 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 8:53 am |
| VEHICLE | | ROLL OFF |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 57220 | | |

Gross Weight 78,600.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 44,340.00 lb 22.17 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE RA 107



NON-HAZARDOUS WASTE MANIFEST

0592204

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 15th St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 15th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | ALLIED WASTE | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Bulk | | | | | |
| 20. Unit Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Munoz | | | | Signature [Signature] Month Day Year 9/6/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

TRANSPORTER #1

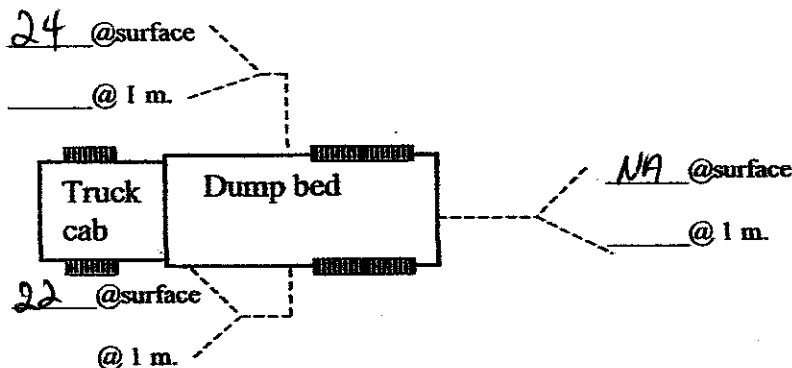
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0843 Surveyed by: CHicks, J Mattson

Trucking Company: Gniere Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

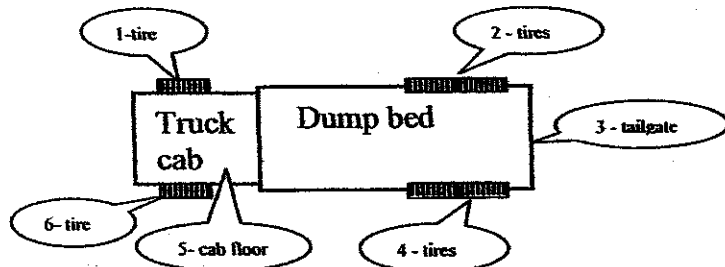
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592203

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Lincoln St Golden, CO 80401 303-273-3600 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Lincoln St Golden, CO 80401 303-273-3600 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontier Landfill 30721 Hwy 24 Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Verm. Soil | | CO 107 00008 7511015 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 18/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature | | Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

24

511738

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
930603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588140 | 0000 |
| WEIGHMASTER | | |
| 6500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 9:00 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 9:00 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592203 | | |

Gross Weight 81,220.00 lb
Tare Weight 37,200.00 lb
Net Weight 44,020.00 lb 22.01 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.01 | TR | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE KERS



24

24

NON-HAZARDOUS WASTE MANIFEST

0592203

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1800 Illinois St Greeley, CO 80639 303-273-5000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Brooks Greeley, CO 80641 303-273-0698 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Terra Tech 2900 Hwy 10 Greeley, CO 80639 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Iron Shd | | CO 187 070903 1511915 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 08/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature | | Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

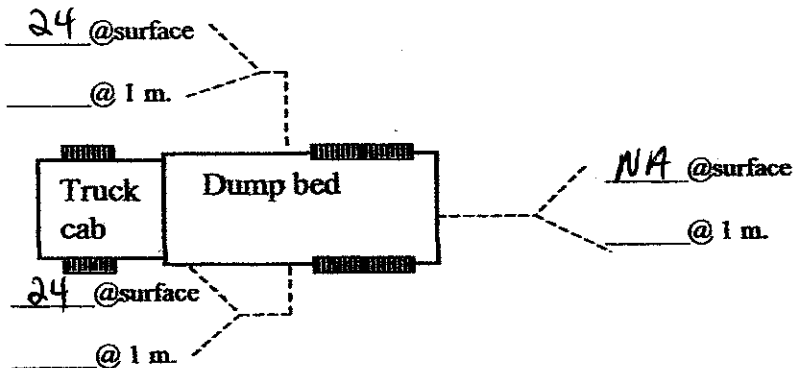
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0849 Surveyed by: CHicks, J Mattson

Trucking Company: Gniere Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

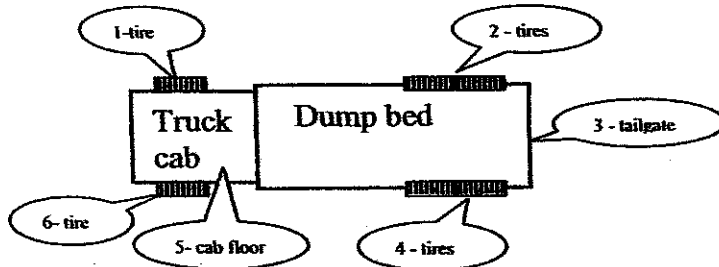
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592202

23

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1575 Illinois St Golden, CO 80401 303-270-3920 | | | | 5. Generating Location (if different) Front Range School of Management Institute North West of 120 and North St Golden, CO 80401 303-270-3920 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO ACCOUNT # 10000000000000000000 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | CO 007 00000000000000000000 | | No. Type | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name <u>Steve Brinkman</u> | | | | Signature <u>[Signature]</u> | |
| | | | | Month Day Year <u>8/29/07</u> | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name <u>MARIL PHELAN</u> | | | | Signature <u>[Signature]</u> | |
| | | | | Month Day Year <u>8/29/07</u> | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

513741

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80606
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | E88143 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8800056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 29 August 2007 | | | 9:05 am | | |
| DATE OUT | | | TIME OUT | | |
| 29 August 2007 | | | 9:05 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| E76202 | | | | | |

Gross Weight 81,660.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 46,560.00 lb 23.28 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.28 | TN | 50-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0592202

23

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1700 Highway 41 Garden, CO 80401 303-373-3000 | | | 5. Generating Location (if different) Gardner School of Mines Research Institute North West of 12th and Birch St Garden, CO 80401 303-273-3000 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Gardner School of Mines Research Institute 1700 Highway 41 Garden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Metal Soil | | 01-07-070010-011915 | | 7.7 tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| MARIL PHELAN | | | | 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

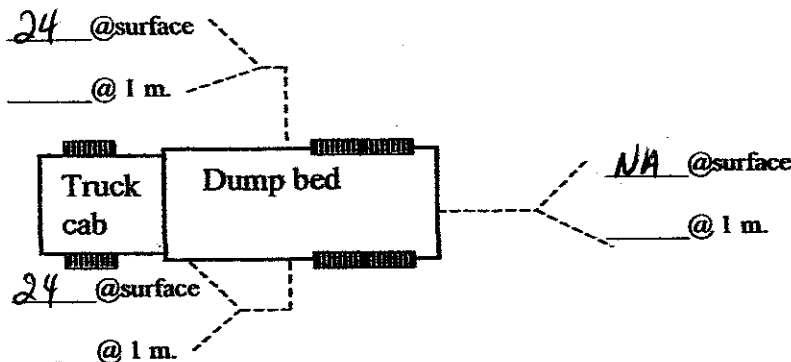
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0856 Surveyed by: CHicks, J Mattson

Trucking Company: Griev Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

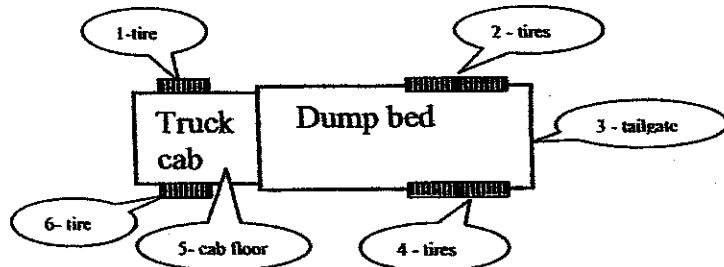
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0582201

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|--|--|---------|--------|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0966 | | | | 5. Generating Location (if different) | | | | | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name Greene Trucking #1/2. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address T/S/D Facility 1200 Hwy 99 Golden, CO 80401 # 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>Y-Yards</td> <td>T-Tons</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | Y-Yards | T-Tons |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | |
| | | Y-Yards | T-Tons | | | | | | | | | | |
| a. | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month Day Year 8/29/07 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 5/29/07 | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | | | | | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

511745

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 558145 | 0000 |
| WEIGHMASTER | | |
| 0500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 7:18 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 9:13 am |
| VEHICLE | | ROLL OFF |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 592201 | | |

Gross Weight 53,320.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 15,620.00 lb 22.81 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.81 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0592201

Please print or type.

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Grive Trucking #12. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Boothill Landfill 8800 Hwy 99 Golden, CO ACCOUNT # 000005 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non Soil | | 051617 07/30/06 1511915 | | No. Type | |
| b. | | | | 19. Total Quantity 0 Drums 3 Gallons | |
| c. | | | | Y-Yards T-Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #2

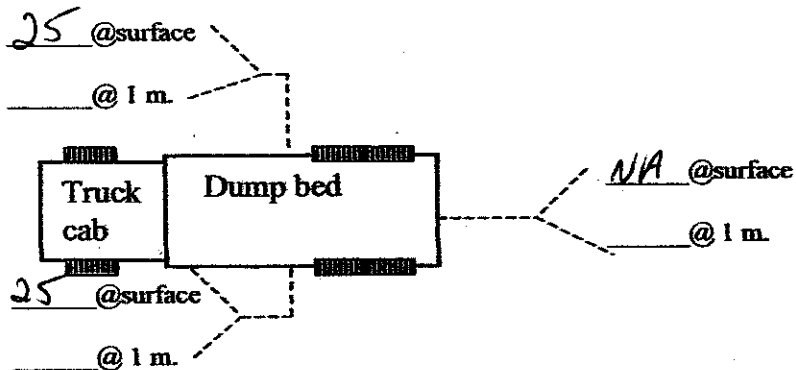
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0910 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

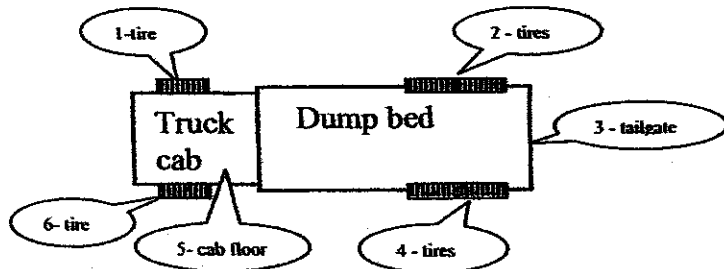
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592200

13

Please print or type.

| | | | | | |
|---|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1510 Illinois St. Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Chisholm Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1510 Illinois St. Golden, CO 80401 | | 14. US EPA ID Number | | 16. Waste Shipping Name and Description | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. | | b. | | c. | |
| d. | | e. | | f. | |
| 21. Additional Descriptions for Materials Listed Above | | 22. Special Handling Instructions and Additional Information | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | 25. Transporter #2: Acknowledgement of Receipt of Materials | | 26. Discrepancy Indication Space | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | 28. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | 29. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | |

GENERATOR'S COPY

COM000033

511754

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 538157 | 0000 |
| WEIGHMASTER | | |
| B500054 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 27 August 2007 | | 8:30 am |
| DATE OUT | | TIME OUT |
| 27 August 2007 | | 9:30 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592200 | | |

Gross Weight 80,900.00 lb
 Tare Weight 35,700.00 lb Inbound --
 Net Weight 45,200.00 lb 22.60 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.60 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592200

13

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Ocean St Golden, CO 80401 303-273-3900 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1400 Lawrence St Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Asbestos | | 1000 1000 1000 1000 | | Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Rafael Lopez | | [Signature] | | 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

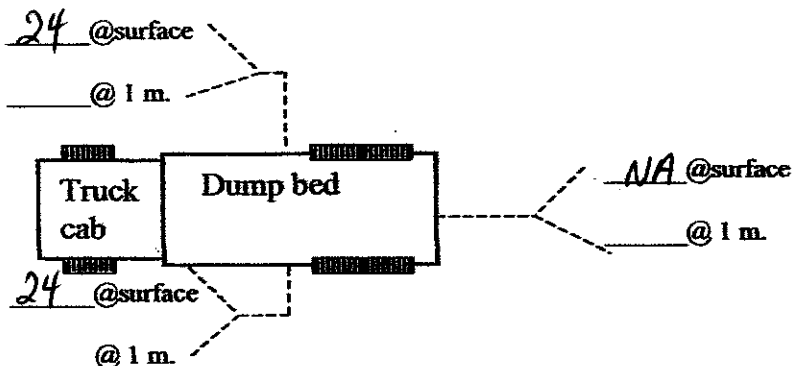
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0920 Surveyed by: CHicks, J Mattson

Trucking Company: Gniere Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

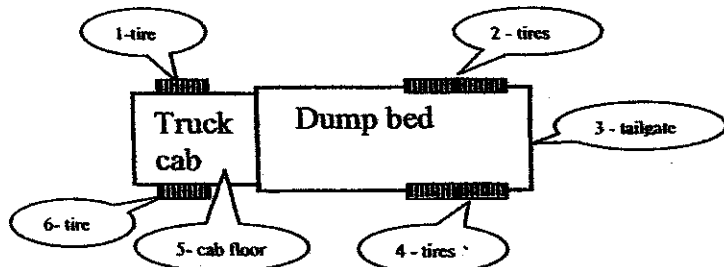
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

961
0592198

Please print or type:

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 10000 Wilshire Blvd. Beverly Hills, CA 90210 203 270-3590 | | | 5. Generating Location (if different) 10000 Wilshire Blvd. Beverly Hills, CA 90210 203 270-3590 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 Wilshire Blvd. Beverly Hills, CA 90210 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Harm Soil | | 001187 07/09/01 7511015 | | 4 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 3/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Diana M. Miller | | Signature | | Month Day Year 4/2/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511782

FOOTHILLS LANDFILL
 3900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 586145 | 0000 |
| WEIGHMASTER | | |
| B500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 27 August 2007 | | 8:40 AM |
| DATE OUT | | TIME OUT |
| 27 August 2007 | | 9:40 AM |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592198 | | |

Gross Weight 76,820.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 44,420.00 lb 22.21 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.21 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

A. M.



NON-HAZARDOUS WASTE MANIFEST

961
0592198

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Main St Golden, CO 80401 303 773 2606 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and D Golden, CO 80401 303 773 3808 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Main St Golden, CO 80401 Colorado School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Non-Hazardous | | CO 107 07038 VS11615 | | 7 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 29 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 29 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

TRANSPORTER #1

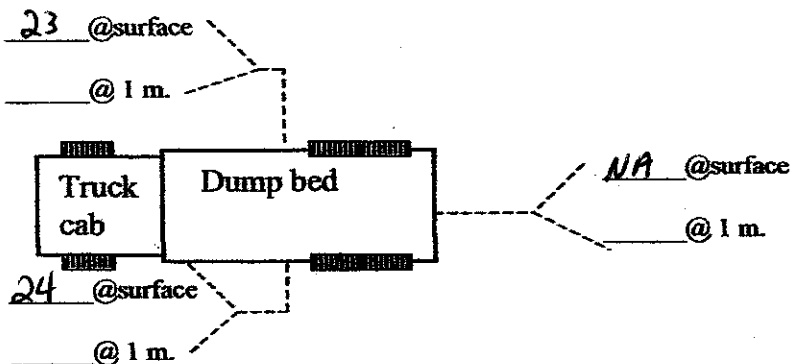
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0926 Surveyed by: CHicks, J Mattson

Trucking Company: Gniewe Truck license plate no. /state: 9 01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

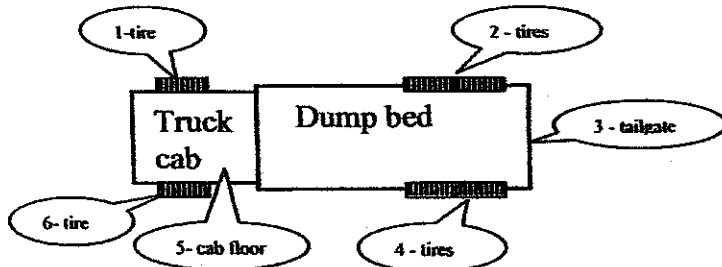
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592199

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Wagon St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Decker St Golden, CO 80401 303-273-3900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address F. Corbin Lumber Co 1500 Wagon St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. None Sent | | CO 07 070316 1E11915 | | 16 Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name: Steve Beckman | | Signature: [Signature] | | Month Day Year: 7/29/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: Jose A Ruiz | | Signature: [Signature] | | Month Day Year: 6/21/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year: | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name: | | Signature: | | Month Day Year: | |

GENERATOR'S COPY

COM000033

621738

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 538171 | | 0000 | |
| WEIGHMASTER | | | | | |
| 1500056 Barbara Jo E | | | | | |
| DATE IN | | | TIME IN | | |
| 29 August 2007 | | | 9:45 am | | |
| DATE OUT | | | TIME OUT | | |
| 29 August 2007 | | | 9:45 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 572199 | | | | | |

Gross Weight 76,760.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 41,180.00 lb 20.59 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.59 | TN | SUB-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0592199

1001

| | | | | | | | |
|--|--|---|---|----------------------------|------|---------------------------|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1510 Illinois St Golden, CO 80401 303-273-0000 | | | 5. Generating Location (if different) School of Mines Research Institute North West of CO and Breckin Golden, CO 80401 303-273-0000 | | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 1510 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Nitr. Sol b. c. d. | | 17. Allied Waste Approval # and Exp. Date 01/07/08 VS 11/01/08 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| | | | | No. | Type | Drums | Galons |
| | | | | 15 | Y | Yards | Tons |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brakman | | | | Signature | | Month Day Year 2 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Jose W Ruiz | | | | Signature | | Month Day Year 6 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

TRANSPORTER #1

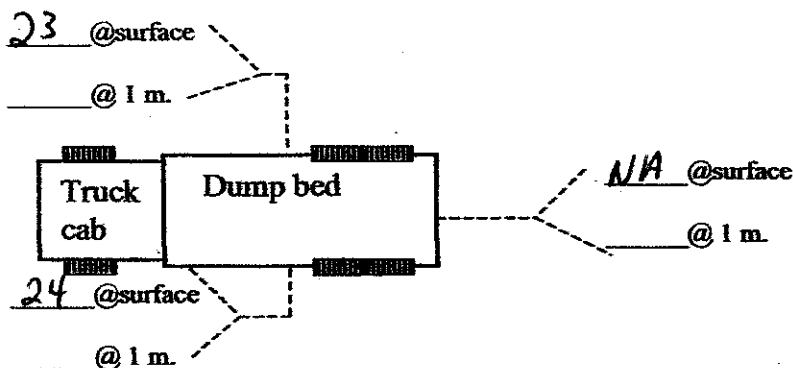
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0931 Surveyed by: CHicks, J Mattson

Trucking Company: Gniere Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

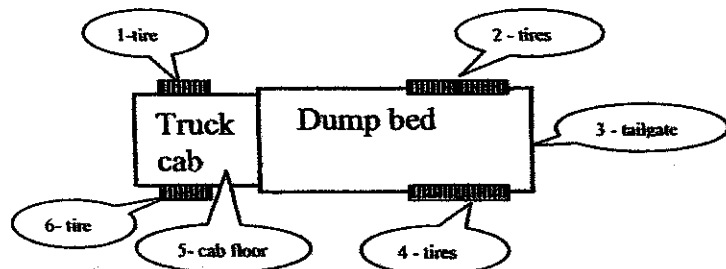
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592177

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Golden, CO 80401 303-273-5500 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 17th and Black St Golden, CO 80401 303-273-5500 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 W. 1st St. Golden, CO 80401 | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Non Sol | | CO 162 070008 1111915 | | C drums | |
| b. | | | | C drums | |
| c. | | | | C drums | |
| d. | | | | C drums | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brakman | | | | 8 29 92 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| M. J. Brakman | | | | 3 2 93 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511772

FOOTHILLS LANDFILL
 3900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588175 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo B | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 9:51 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 9:51 am |
| VEHICLE | | ROLL OFF |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 592177 | | |

Gross Weight 76,520.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 39,540.00 lb 19.77 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.77 | TN | SN-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592177

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 W. 1st St. Olathe, MO 64601 303-275-3500 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute South West of 12th and Birch St Golden, CO 80401 303-275-3500 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Pittsburg, MO 303-275-3500 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North Sul | | 0010700000151015 | | 70 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 9. Drums 0 Gallons | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brakman | | | | 8 29 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mark | | | | 9 27 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

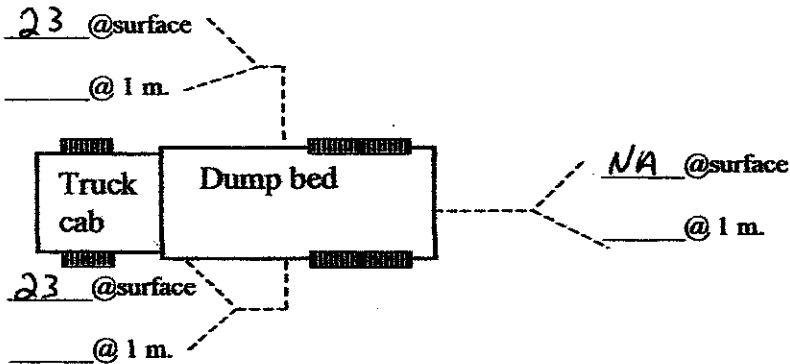
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0937 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

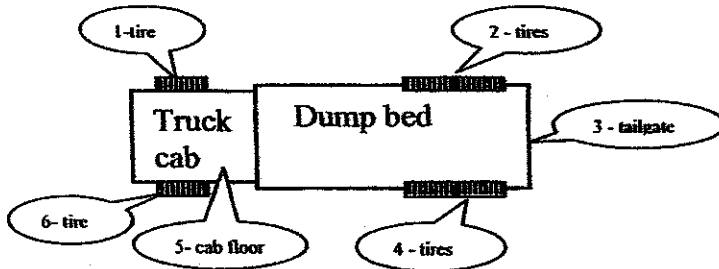
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592178

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1100 Plover St Golden, CO 80401 303-270-3690 | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Byron St Golden, CO 80401 303-270-3690 | | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 1100 Plover St Golden, CO 80401 - School of Mines | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Non Sol | | 201107 070308 1511515 | | 7 Yards 1 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve B... | | | | 7/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando... | | | | 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511773

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555177 | 0000 |
| WEIGHMASTER | | |
| IS000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 9:57 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 9:57 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592176 | | |

Gross Weight 73,240.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 41,660.00 lb 20.83 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.83 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

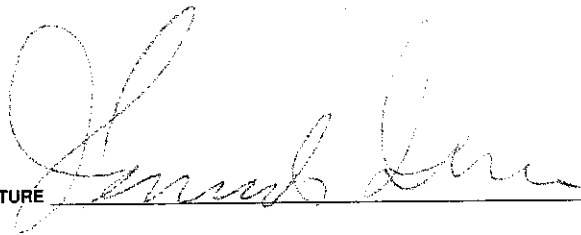
NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE






NON-HAZARDOUS WASTE MANIFEST

0592178

Please print or type.

| | | | | | | | | | | | | | |
|--|--|---|---|---------------------------------|--|--------------------|--|-----------------|--|-----------|--|------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
| 3. Generator's Name and Mailing Address 1000 B Street St Golden, CO 80401 303 273 3900 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303 273 3900 | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1000 B Street St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description a. Iron Scales b. c. d. | | 17. Allied Waste Approval # and Exp. Date 1000 B STREET ST GOLDEN, COLORADO 80401 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | | | |
| | | | | No. | | Type | | Gallons | | Gallons | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature <i>[Signature]</i> | | | | Month 8 | | Day 29 | | Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name Fernando Luna | | | | Signature <i>[Signature]</i> | | | | Month 8 | | Day 29 | | Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | | Day | | Year | |

TRANSPORTER #1

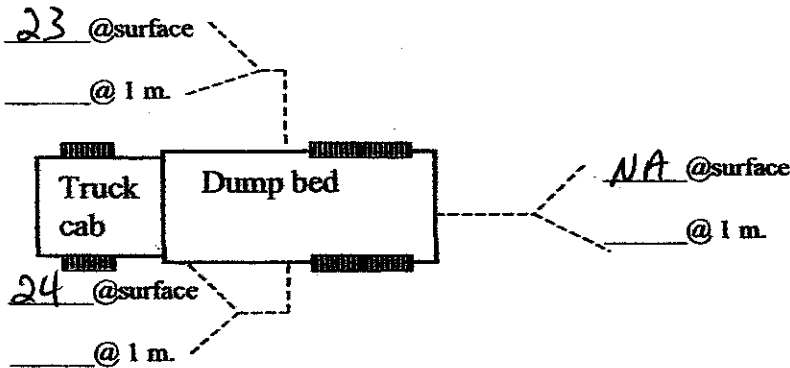
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0943 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10 mrem/hr, survey is complete.)

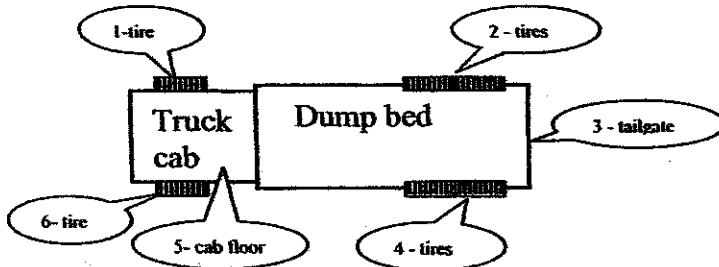
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

JD04
0592179

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Phoebe St Garden, CO 80404 4. Phone () 303-273-0000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Garden, CO 80404 6. Phone () 303-273-0000 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10000 E. 1st Ave Garden, CO 80404 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Asbestos | | 0010740906 10/10/15 | | 19. Total Quantity 2 Containers | |
| b. | | | | 20. Unit Wt/Vol 7 Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Z. [Signature] | | | | Signature [Signature] Month 08 Day 29 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Victor [Signature] | | | | Signature [Signature] Month 08 Day 29 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

511777

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 536181 | 0000 |
| WEIGHMASTER | | |
| 9500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 10:03 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 10:03 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592179 | | |

Gross Weight 75,280.00 lb
 Tare weight 35,640.00 lb Inbound -
 Net Weight 39,640.00 lb 19.82 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.82 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

JD64
0592179

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|--|--|-----|------|--------------------|-----------------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator's Name and Mailing Address 1500 1st St Tulsa, OK 74101 Phone (918) 771-8000 | | | | 5. Generating Location (if different) University of Oklahoma Health Sciences Center North West of 12th and Detroit Oklahoma City, OK 73101 Phone (405) 270-1000 | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Spartan, OK | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | a. | | | | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve B. Brown | | Signature <i>[Signature]</i> | | Month Day Year 05 29 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Denton Haddock | | Signature <i>[Signature]</i> | | Month Day Year 06 29 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

TRANSPORTER #1

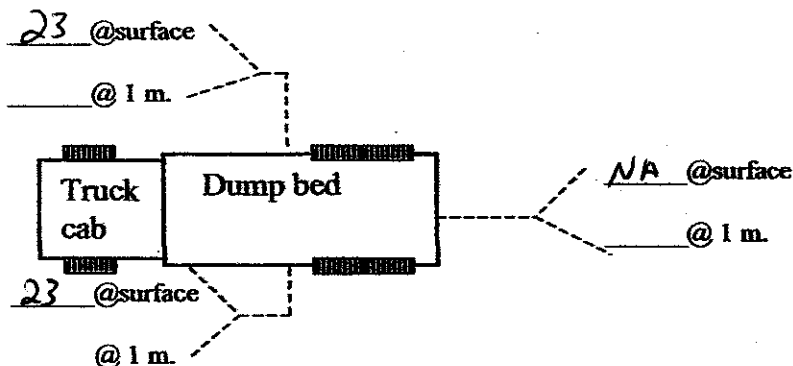
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0951 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

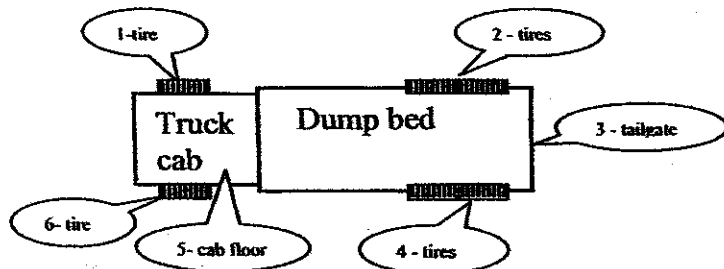
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592180

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1700 W. 10th St Golden, CO 80401 303-279-3888 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Broadway Golden, CO 80401 303-279-3888 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 7000 E. 1st Ave Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 03167103200 111015 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 6 drums | | | | | |
| 20. Unit Wt/Vol 55 Gallons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | |
| | | | | Month Day Year 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

321793

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586137 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 10:09 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 10:09 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592180 | | |

Gross Weight 81,620.00 lb
Tare Weight 36,540.00 lb
Net Weight 45,080.00 lb 22.54 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.54 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592180

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Wilson St Gallatin, CO 80101 403 273-0800 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Buck St Gallatin, CO 80101 403 273-0800 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 20401 N. 30 Gallatin, CO 80101 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. None Soil | | 18037 PURE 01/01/07 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity G. Grams L. Liters | | | | | |
| 20. Unit Wt/Vol G. Grams L. Liters | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

TRANSPORTER #1

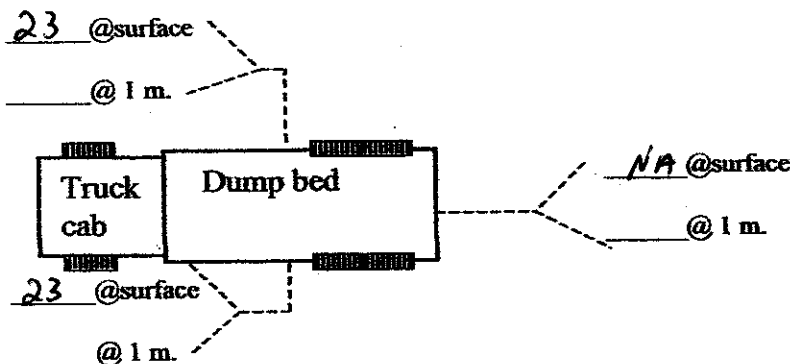
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 0958 Surveyed by: CHicks, J Mattson

Trucking Company: Griev Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

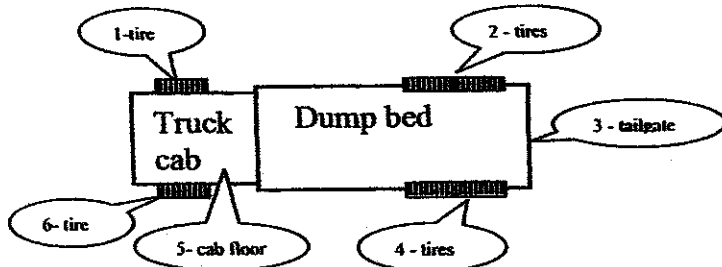
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592181

461

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Main St Golden, CO 80401 303-273-6000 | | | | 5. Generating Location (if different) Waste Service of Mineral Resources Institute North West of 12th and I Street Golden, CO 80401 303-273-6000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Public Works 1000 11th St Golden, CO 80401 (Formerly Public Works) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Motor Oil | | 07/07/0000 75/11915 | | 15 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| 0.000000 | | 0.000000 | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Sicre Beckman | | | | 8/29/00 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | | | 8/29/00 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511787

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555191 | 0000 |
| WEIGHMASTER | | |
| 8900056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 10:14 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 10:14 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592181 | | |

Gross Weight 79,480.00 lb
 Tare Weight 34,260.00 lb Inbound --
 Net Weight 45,220.00 lb 22.61 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.61 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592181

461

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1400 W. 1st St. Orem, UT 84401 (801) 225-0000 | | | | 5. Generating Location (if different) North West of 12th and Orchard Orem, UT 84401 (801) 225-0000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Fountain Valley 1000 May St. Orem, UT 84401 (Allied Waste Services) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Normal Soil | | 00167010008 01/19/15 | | 16 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| 16 Drums | | 16 Drums | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brannon | | | | 12/29/15 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Palmer | | | | 12/29/15 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

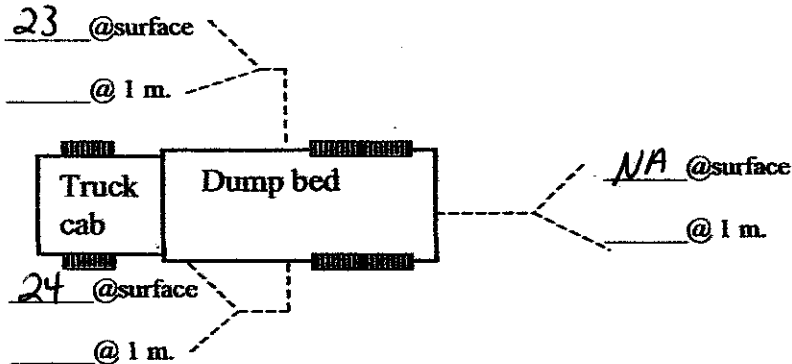
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1005 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

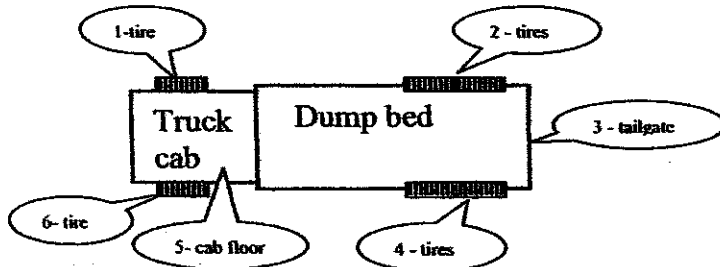
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



24

NON-HAZARDOUS WASTE MANIFEST

0592182

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 W. 1st St. Goldsburg, CO 80441 303-271-4990 | | | | 5. Generating Location (if different) North School of Mines Research Institute North West of 12th and Birch St Goldsburg, CO 80441 303-271-4990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name J DeGrievé Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Poudre Canyon 8700 Hwy 90 Glenwood CO, 81530 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Oil | | CO 067 1209/2-15-1315 | | 18 Y Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Y-Yards | | | | | |
| 20. Unit Wt/Vol Y-Yards | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Blumhans | | Signature | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature | | Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

44 511790

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 528194 | 0000 |
| WEIGHMASTER | | |
| E000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 10:22 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 10:22 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 572182 | | |

Gross Weight 51,680.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 44,480.00 lb 22.24 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

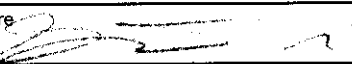
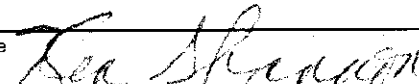


SIGNATURE

K. Ellis



0592102

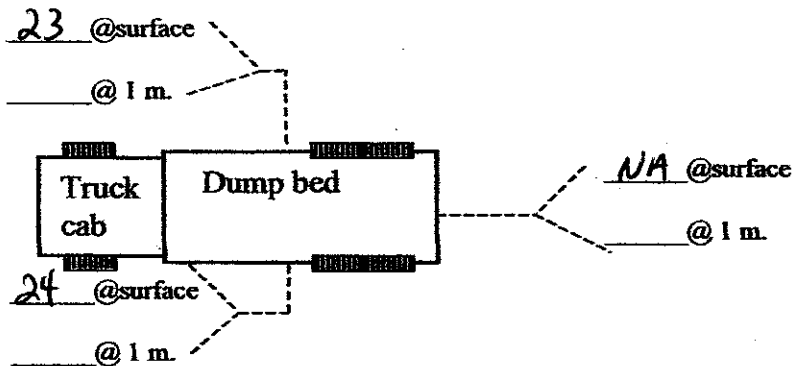
| | | | | | | | | | | |
|--|---|--|--------------------------|---|---|---|--|--------------------------------|-----------------------------|--|
| GENERATOR | 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| | 3. Generator's Name and Mailing Address 1501 12th St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Bond St Golden, CO 80401 303-273-3000 | | | | | |
| | 4. Phone () | | | | 6. Phone () | | | | | |
| | 7. Transporter #1 Company Name JOE GRIEVE TRUCKING | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| | 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| | 13. Designated T/S/D Facility Name and Site Address AUXILIARY # 1444 - 1444th St Golden, CO | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| | 16. Waste Shipping Name and Description a. Heavy Soil | | | 17. Allied Waste Approval # and Exp. Date 001-67-075008-1-1-1915 | | 18. Containers No. Type 18 Y | | 19. Total Quantity 0.000000 | 20. Unit Wt/Vol 0.000000 | |
| | b. | | | | | | | | | |
| | c. | | | | | | | | | |
| | d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Benham | | | | | Signature  | | | Month Day Year 12/29/15 | | |
| TRANSPORTER | 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| | Printed/Typed Name KEE SHANNON | | | | | Signature  | | | Month Day Year 08/29/17 | |
| T/S/D FACILITY | 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| | Printed/Typed Name | | | | | Signature | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month Day Year | | |

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1013 Surveyed by: CHicks, J Mattson
 Trucking Company: Gneve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

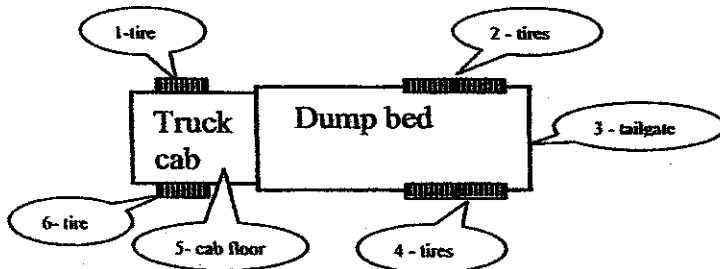
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592183

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Golden, CO 80401 203-273-3003 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 203-273-3003 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Heavy Soil | | 30107-30036-1011915 | | 19. Total Quantity 2.0 Tons | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Erickson | | Signature <i>[Signature]</i> | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | Signature <i>[Signature]</i> | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511794

FOOTHILLS LANDFILL
8900 HIGHWAY 73
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588196 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 10:31 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 10:31 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592183 | | |

Gross Weight 83,340.00 lb
Tare Weight 35,100.00 lb
Net Weight 48,240.00 lb 24.12 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.12 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



23

NON-HAZARDOUS WASTE MANIFEST

0592183

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1001 Illinois St Oxford, OH 45041 4. Phone () 513-273-3993 | | | | 5. Generating Location (if different) Oxford School of Lines Research Institute North West of 17th and Oxford Oxford, OH 45041 5. Phone () 513-273-3993 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Oxford School of Lines Research Institute Oxford, OH 45041 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Waste | | 20187-0093, 7/1/18-18 | | Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month Day Year 8 29 14 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | | | Signature [Signature] Month Day Year 8 29 17 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

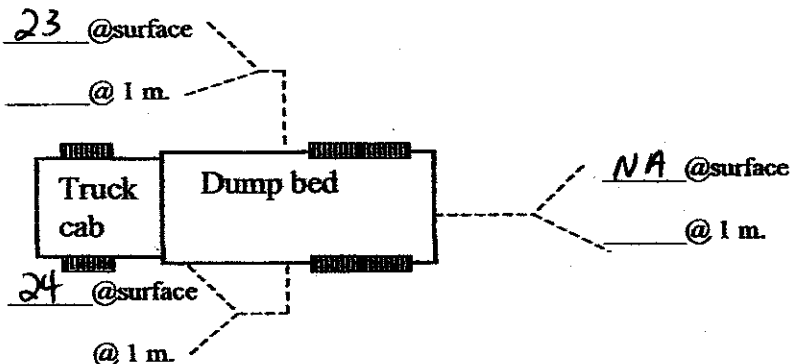
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1020 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

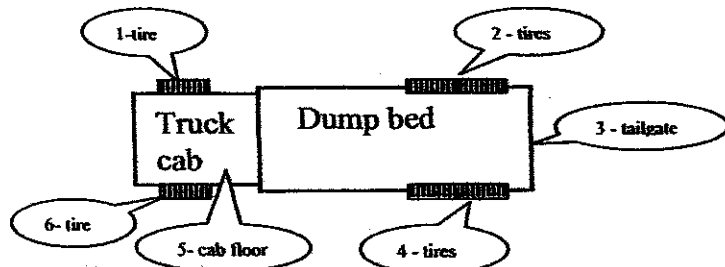
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592184

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 W. 9th St. Golden, CO 80401 303-273-0000 | | | | 5. Generating Location (if different) University of Minnesota Research Institute North West of 12th and Dahl St. Golden, CO 80401 303-273-0500 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Lance Trucking H12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 W. 9th St. Golden, CO 80401 (Attached to: 1000 W. 9th St. # 1000000 Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North Soil | | 00107123002 05/19/10 | | 15 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Pallets | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannon | | Signature | | Month Day Year 8 29 08 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name J. T. Brown | | Signature | | Month Day Year 8 29 08 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 980603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

12 511799

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585203 | 0000 |
| WEIGHMASTER | | |
| 5800056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 10:35 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 10:35 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592184 | | |

Gross Weight 61,820.00 lb
 Tare Weight 37,700.00 lb Inbound -
 Net Weight 44,120.00 lb 22.06 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



0592184

Please print or type.

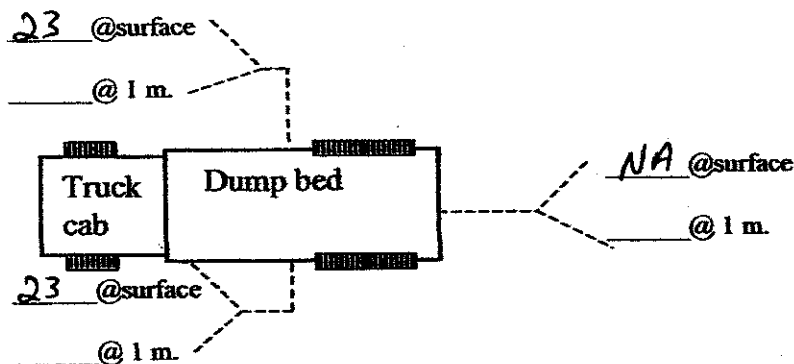
FIELD FACILITY

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1027 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

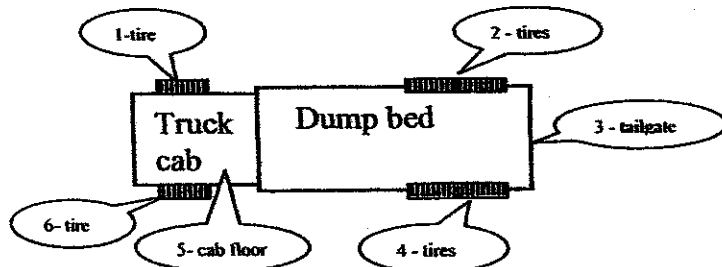
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592185

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1000 25th St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Grand Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 2250 14th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. North Side | | 00167 07/06/95 1/015 | | 19. Total Quantity 0.000000 20. Unit Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Blahman | | | | Signature [Signature] Month 8 Day 29 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Collazo Lopez | | | | Signature [Signature] Month 08 Day 29 Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

511803

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558308 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 10:44 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 10:44 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592155 | | |

Gross Weight 81,080.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 45,380.00 lb 22.69 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.69 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592185

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St Golden, CO 80401 303-273-5000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West at 12th and Birch St Golden, CO 80401 303-273-5000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 2500 Hwy 10 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. | | 2016-07-06-751705 | | 19. Total Quantity 0 Drums | |
| b. | | | | 20. Unit Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Burkman | | Signature | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Collazo Lopez | | Signature | | Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

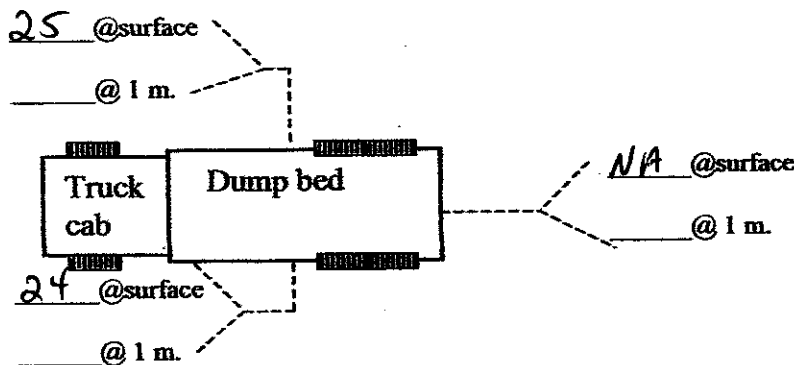
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1035 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

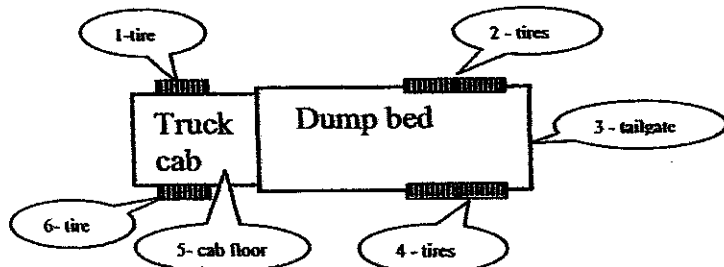
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

961
0592186

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden CO 80401 303-275-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden CO 80401 303-275-3898 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Golden CO 80401 Colorado School of Mines Research Institute | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Worm Soil | | 17. Allied Waste Approval # and Exp. Date 0010710050101010 | | 18. Containers No. Type | |
| b. | | | | 19. Total Quantity Y-Yards | |
| c. | | | | 20. Unit Wt/Vol | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Burkman | | | | Signature [Signature] Month Day Year 8/29/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 8/29/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR'S COPY

COM000033

511007

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588212 | 0000 |
| WEIGHMASTER | | |
| B300056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 10:55 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 10:55 am | |
| VEHICLE | ROLL OFF | |
| 7311915 | | |
| REFERENCE | ORIGIN | |
| 572186 | | |

Gross Weight 80,160.00 lb
Tare Weight 34,400.00 lb
Net Weight 45,760.00 lb 22.68 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.68 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE AA

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

961
0592188

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Birch St Golden, CO 80401 303-273-8666 | | | | 5. Generating Location (if different) School of Mines Research Institute North West at 17th and Clark St Golden, CO 80401 303-273-8666 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1501 Birch St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | b. | | c. | |
| d. | | e. | | f. | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Benken | | [Signature] | | 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Name] | | [Signature] | | 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

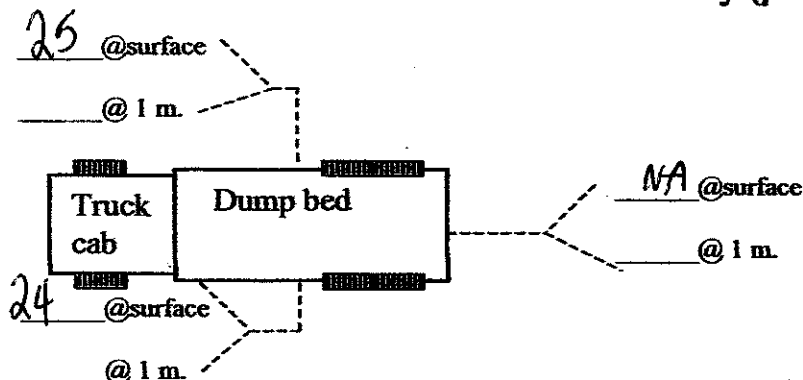
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1043 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

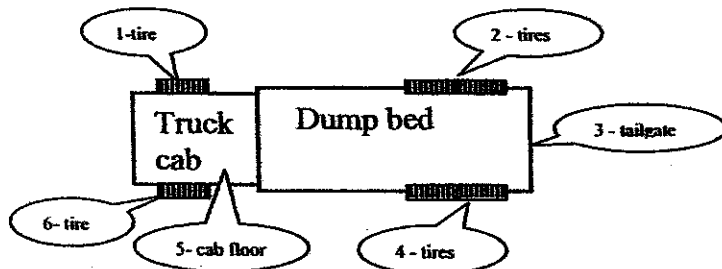
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

JDCI
0592167

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Mines Research Institute 1500 North St. Golden, CO 80401 303-278-3800 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-278-3800 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste Landfill 1500 North St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 1000 lbs | | 303-278-3800 | | 18 1 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 7 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jose W Ruiz | | Signature | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511809

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555214 | 0000 |
| WEIGHMASTER | | |
| B500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 11:00 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 11:00 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592167 | | |

Gross Weight 90,120.00 lb
 Tare Weight 35,580.00 lb Inbound -
 Net Weight 44,540.00 lb 23.27 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.27 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHK

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

JDC
0592167

| | | | | | |
|--|--|---|---|----------------------------|--|
| Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Union St Golden, CO 80401 303-273-1000 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 10721 Hwy 20 Golden, CO 80401 (Include ZIP + 4 digit extension if known) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Clean Soil | | 167-07000-1511016 | | 18 1 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 12 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jose W Ruiz | | Signature | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

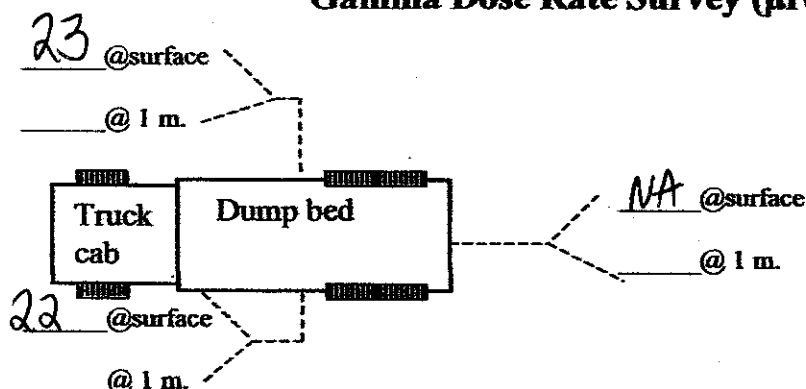
TRANSPORTER #1

COM000933

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1047 Surveyed by: C Hicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

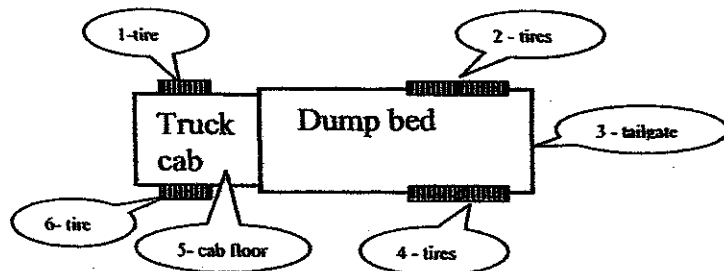
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592168

Please print or type:

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|--|--|--------|--------|
| 3. Generator's Name and Mailing Address 1500 Illinois St Garden City, CO 80401 Phone: 303-773-3698 | | | | 5. Generating Location (if different) Garden City School of Junior Research Institute 1/4th West of 12th and Birch St Garden City, CO 80401 Phone: 303-773-3698 | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Illinois St Garden City, CO 80401 Phone: 303-773-3698 | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>0 Cans</td> <td>0 Cans</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 0 Cans | 0 Cans |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | |
| | | 0 Cans | 0 Cans | | | | | | | | | | |
| a. Asbestos | | 0110707090101010 | | | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| Steve Beckman | | | | 12/29/07 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| David J. Beckman | | | | 12/29/07 | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |

GENERATOR'S COPY

COM000033

511811

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 598216 | 0000 |
| WEIGHMASTER | | |
| 580005a Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 11:06 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 11:06 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 598216 | | |

Gross Weight 79,020.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 42,040.00 lb 21.02 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.02 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten signature]



0592168

Please print or type.

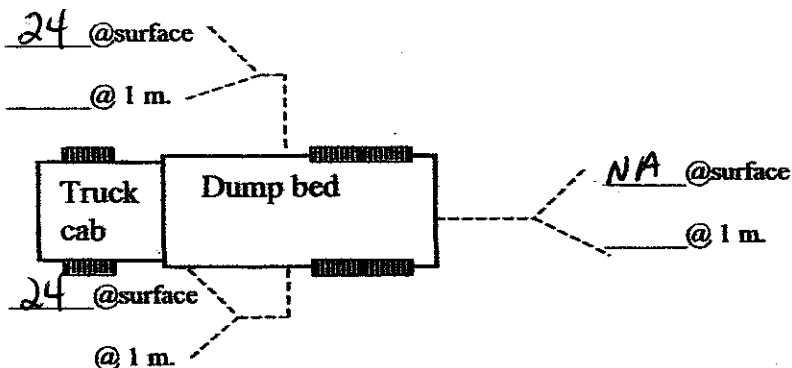
| | | | |
|---------------|-------------|---|-----------|
| TS/D FACILITY | TRANSPORTER | ↓ | GENERATOR |
|---------------|-------------|---|-----------|

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1052 Surveyed by: CHicks, J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

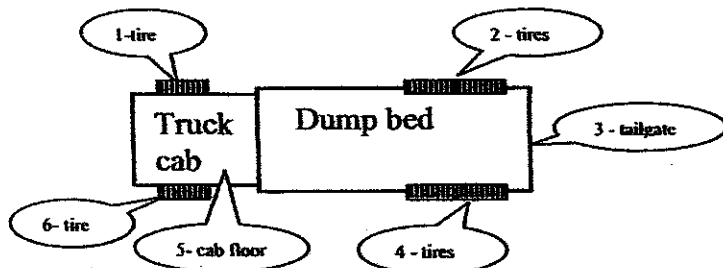
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 8 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

0592169

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1800 Illinois St Golden, CO 80401 303-273-3808 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Barn St Golden, CO 80401 303-273-3808 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Portland Cement 1000 Hwy 10 Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Iron Rod | | 03167159921911915 | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Beckman | | | | 8/29/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| James Beckman | | | | 8/29/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

511814

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588219 | 0000 |
| WEIGHMASTER | | |
| BSC0056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 11:11 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 11:11 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592169 | | |

Gross Weight 78,960.00 lb
 Tare Weight 36,580.00 lb Inbound --
 Net Weight 42,380.00 lb 21.17 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592169

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|---------------------------------|---------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Scholar's School of Management North-West of 12th and Berk St Garden, CO 80401 303-273-3608 | | | | 5. Generating Location (if different) Scholar's School of Management North-West of 12th and Berk St Garden, CO 80401 303-273-3608 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Scholar's School 6011 Berk St Garden, CO 80401 (Scholar's School of Management) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity (1) Drums | 20. Unit Wt/Vol (1) Drums | |
| | | | | No. | Type | | | |
| a. Main Sol | | 3016707002 511515 | | | | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 8 | Day 29 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 29 | Year 97 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

TRANSPORTER #1

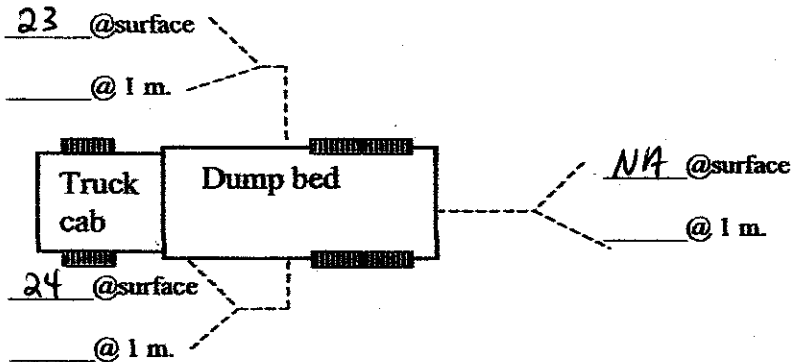
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1059 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

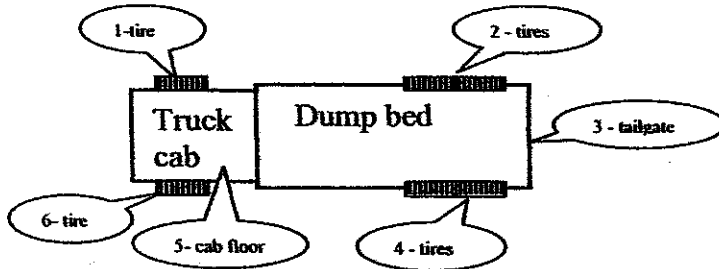
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592170

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 S. 1st St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 S. 1st St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. 1000 lbs of | | 15-187-0729-01 05/12/15 | | 19. Total Quantity 0.000000 | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | Y-Yards | |
| d. | | | | T-Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Br. Homan | | Signature [Signature] | | Month Day Year 08/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | Signature [Signature] | | Month Day Year 08/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511824

FOOTHILLS LANDFILL
8700 HIGHWAY 73
GOLDEN
CO
806603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 535229 | 0000 |
| WEIGHMASTER | | |
| 8300054 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 11:21 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 11:21 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592170 | | |

00 Gross Weight 75,480.00 lb
Tare Weight 35,640.00 lb
Net Weight 39,840.00 lb 19.72 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.72 | TN | SW-COFT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592170

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|--|---|--|-----|------|--|--|
| 3. Generator's Name and Mailing Address 1500 Bluffs St Golden, CO 80401 303-273-3606 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Black St Golden, CO 80401 303-273-3606 | | | | | |
| 4. Phone () | | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td></td> <td></td> </tr> </table> | | No. | Type | | |
| No. | Type | | | | | | | | |
| | | | | | | | | | |
| a. | | | | 19. Total Quantity 0.000000 | | | | | |
| b. | | | | 20. Unit Wt/Vol 0.000000 | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Buchanan | | Signature <i>[Signature]</i> | | Month Day Year 8/29/07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Lester P. [unclear] | | Signature <i>[Signature]</i> | | Month Day Year 08/29/07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | |

TRANSPORTER #1

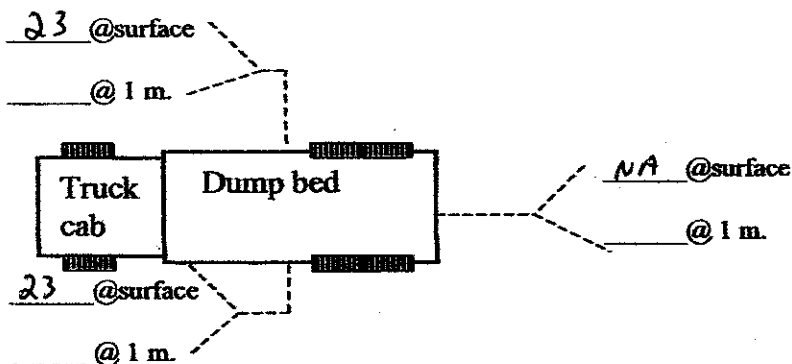
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1107 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

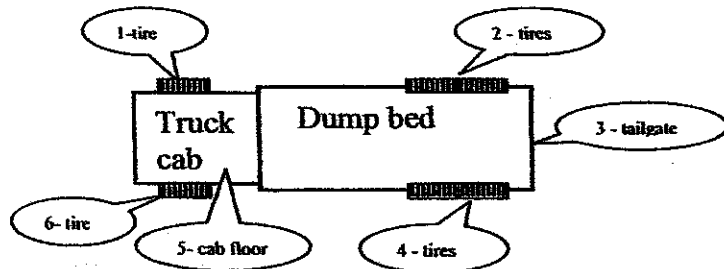
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 8 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0582171

Please print or type.

| | | | | | | | |
|--|--|---|--|--|------|--------------------------------|-----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-270-4908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Diagon St Golden, CO 80401 303-270-4908 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address FORD'S CENTER 2000 I-70 Golden, CO 80401 # 80401 (Golden School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0.000000 | 20. Unit Wt/Vol 0.000000 |
| | | | | No. | Type | | |
| a. Heavy Soil | | 00157071808 15/15/15 | | 15 | 4 | 7-Yards | 1-Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Smith | | | | Signature | | Month Day Year 08 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature | | Month Day Year 08 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033



NON-HAZARDOUS WASTE MANIFEST

0592171

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|-------------------------------|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1800 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3906 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 19001 Hwy 93 Golden, CO ACCOUNT # 300000 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date CO 167 07/2008 Y511915 | | 18. Containers | | 19. Total Quantity 0 Drums | 20. Unit Wt/Vol 0 Drums |
| | | | | No. | Type | | |
| a. Norm Sod | | | | 18 | Y | Y-Yards | Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature | | Month Day Year 08 09 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

TRANSPORTER #2

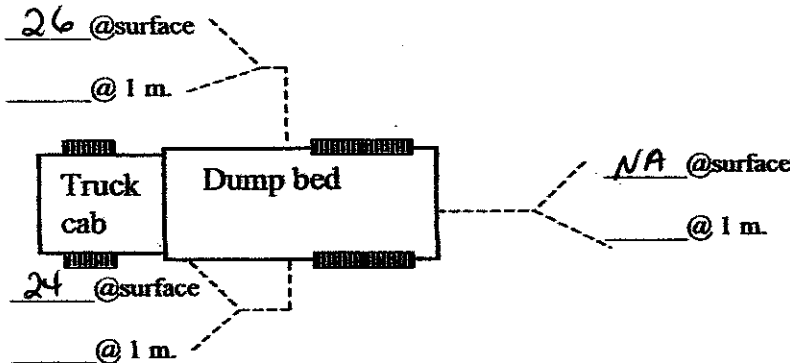
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1117 Surveyed by: CHicks, J Mattson

Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

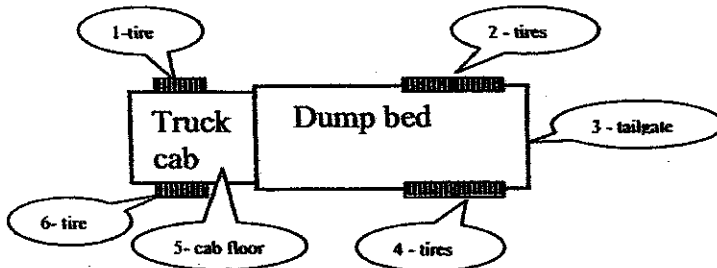
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



461

NON-HAZARDOUS WASTE MANIFEST

0592172

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden CO 80401 303-270-3590 | | | | 5. Generating Location (if different) 2900 So School of Mines Research Institute North West of 12th and Brooks Golden CO 80401 303-270-3590 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 12000 E 1st Golden CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Iron Sulf | | CO: 07-07386-5/1916 | | 12 Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brown | | | | Signature [Signature] | |
| | | | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] | |
| | | | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

511827

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 558503 | 0000 |
| WEIGHMASTER | | |
| 1500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 11:24 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 11:24 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592171 | | |

00 Gross Weight 34,160.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 47,420.00 lb 23.81 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.81 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

461
0592172

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | |
|--|------|---|---|---|--|-----|------|--------------------|-----------------|--|--|-------|-------|
| 3. Generator's Name and Mailing Address 1701 Illinois St Garden, CO 80131 303-773-3946 | | | 5. Generating Location (if different) Gardner School of Mines Research Institute North West of 12th and Birch St. Garden, CO 80131 303-773-3946 | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Gardner, CO | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>Drums</td> <td>Drums</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | Drums | Drums |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | |
| | | Drums | Drums | | | | | | | | | | |
| a. | | | | 17 4 | | | | | | | | | |
| b. | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| Steve B. Murray | | [Signature] | | 8 29 07 | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| Mike Murray | | [Signature] | | 8 29 07 | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | |
| | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

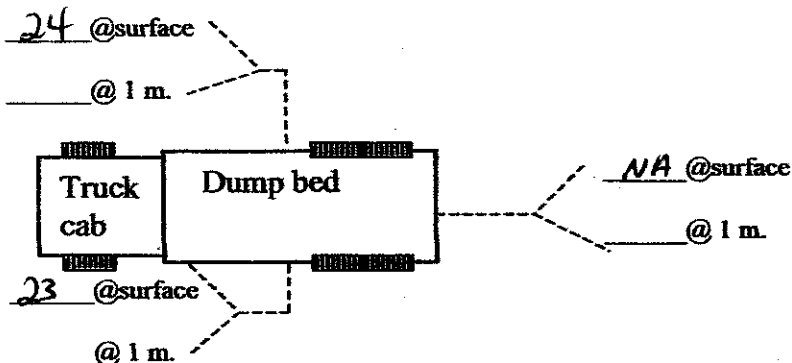
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1123 Surveyed by: CHicks, J Matkon

Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

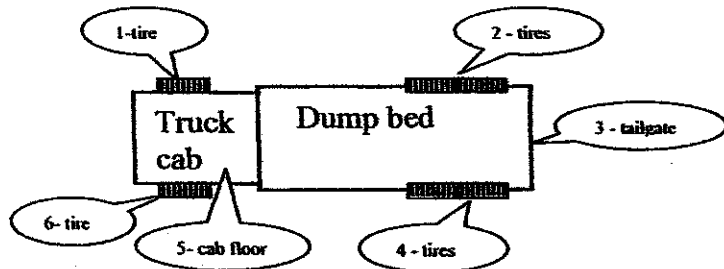
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592173

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St. Golden, CO 80401 303-277-3000 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 13th and March St Golden, CO 80401 303-277-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Rocky Mountain 1000 14th St Golden, CO 80401 INTERMOUNTAIN WASTE MANAGEMENT | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Home Soil | | COLLECTED 10/1/96 | | 18 Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Shannon | | Signature | | Month Day Year 08/29/00 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | Signature | | Month Day Year 08/29/00 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511835

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 228240 | 0000 |
| WEIGHMASTER | | |
| DS00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 11:38 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 11:38 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 392172 | | |

00 Gross Weight 80,900.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 46,640.00 lb 23.32 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.32 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592173

Please print or type.

| | | | | | |
|--|--|--------------------------|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1000 Illinois St Golden, CO 80401 303-273-3898 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West on 12th and York St Golden, CO 80401 303-273-3898 | | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 16. Waste Shipping Name and Description | |
| 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | |
| | | No. Type | | 20. Unit Wt/Vol | |
| a. Waste Soil | | 18 Y | | Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Joe Grieve | | Joe Grieve | | 05/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Ken Shannon | | Ken Shannon | | 05/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR
↓
TRANSPORTER
↓
T/S/D FACILITY

TRANSPORTER #1

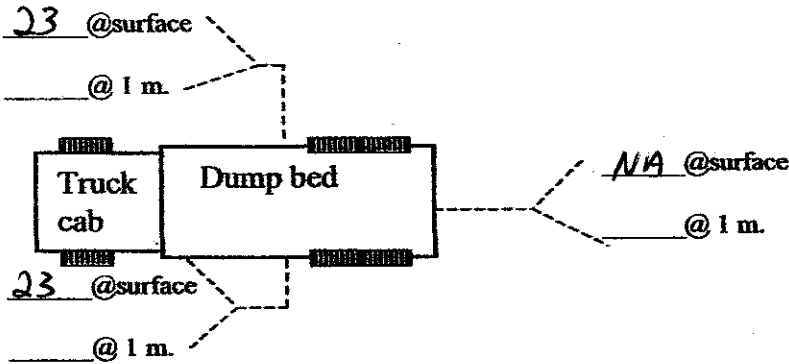
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1130 Surveyed by: CHicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

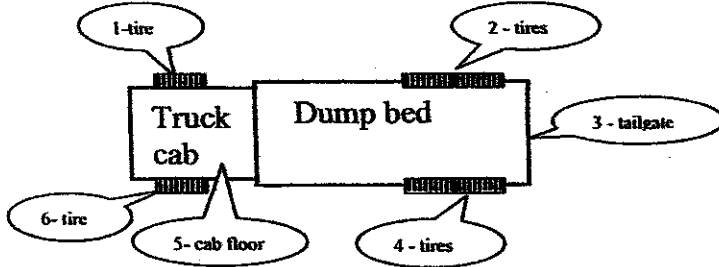
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592176

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and 13th St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Allied Waste 1500 Illinois St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Waste Oil | | 05/17/2007 - 11/10/15 | | 19. Total Quantity 0 Oils | |
| b. | | | | 20. Unit Wt/Vol Yards | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Lechner | | Signature | | Month Day Year 8 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | Signature | | Month Day Year 8 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 511838

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 503243 | 0000 |
| WEIGHMASTER | | |
| 6500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 11:41 am | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 11:41 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592173 | | |

00 Gross Weight 80,720.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 43,520.00 lb 21.76 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.76 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592176

Please print or type.

| | | | | | |
|--|--|--------------------------|---|---|---------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1501 Illinois St Golden, CO 80401 303-273-3000 | | | | 5. Generating Location (if different) North West 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address COTRIS CORP 8070 Hwy 90 Golden, CO 80401 (Allied Waste Services (Denver) Site) | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| | | | | | No. Type |
| a. 11 TON BAIL | | | 001719087511715 | | 19. Total Quantity 7.00 tons |
| b. | | | | | 20. Unit Wt/Vol Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month 8 Day 29 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHILAN | | | | Signature [Signature] Month 8 Day 29 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

TRANSPORTER #1

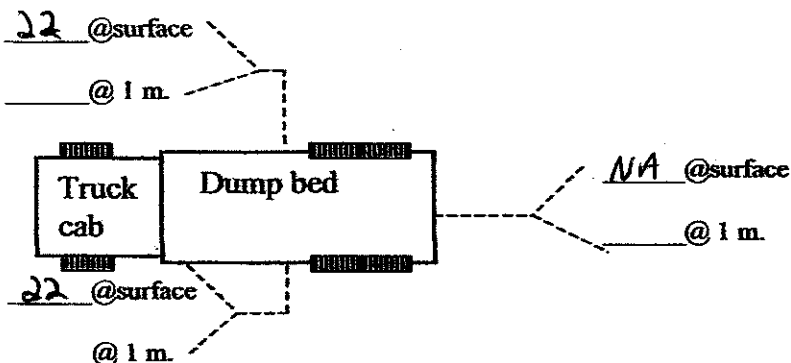
COM000039

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1138 Surveyed by: CHicks, J Matson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

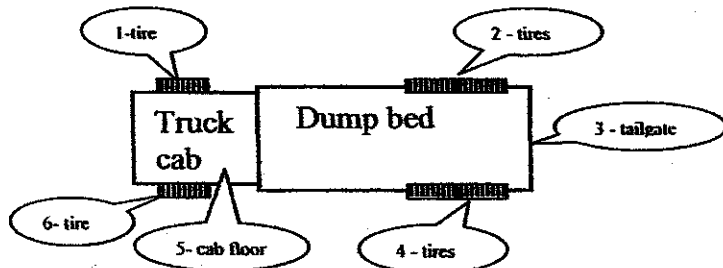
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592175

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Dick St Golden, CO 80401 303-273-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Genco Trucking H/L | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado State 1000 14th St Golden, CO 80401 (Contract Service of a State) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Mine Soil | | 00157000000000000000 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Zimmerman | | | | Signature [Signature] | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Month Day Year 5 29 07 | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name | | | | Signature | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

GENERATOR'S COPY

COM000033

511915

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 508248 | 0000 |
| WEIGHMASTER | | |
| #000056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 11:45 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 11:45 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592176 | | |

00 Gross Weight 91,580.00 lb
 Tare Weight 35,100.00 lb Inbound --
 Net Weight 46,480.00 lb 23.24 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592175

12

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-0900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0900 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Genie Trucking #12. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Prothelia Landfill 8900 Hwy 90 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO 167 070900 Y5 11915 | | 19. Total Quantity 18 Drums | |
| b. | | | | 20. Unit Wt/Vol Yards | |
| c. | | | | Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brannen | | Signature [Signature] | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Name] | | Signature [Signature] | | Month Day Year 8/29/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #2

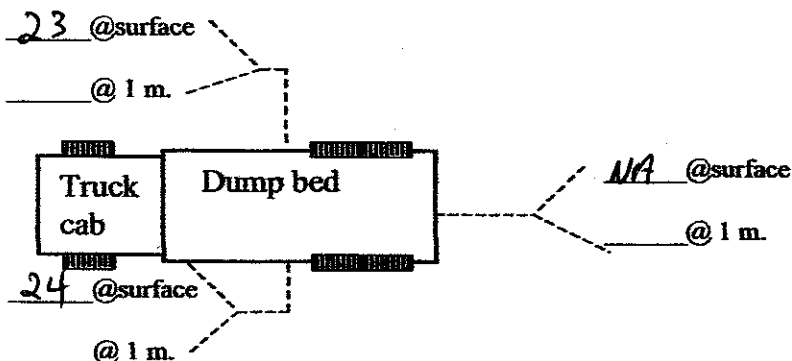
00M000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1149 Surveyed by: C Hicks, J Mattson

Trucking Company: Gnere Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

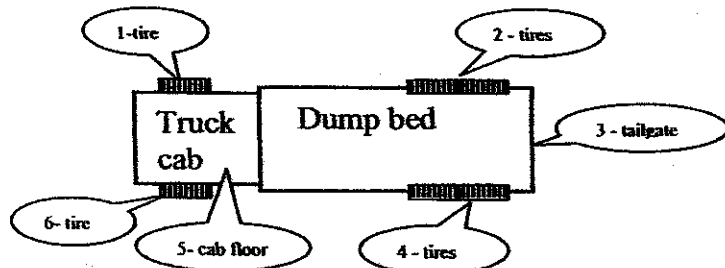
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 2.0 cpm | β 255 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 54.4 dpm | 556.1 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0592174

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address School of Meius Research Institute 1500 Illinois St Golden, CO 80401 303-273-3500 | | | | 5. Generating Location (if different) North West of 12th and Birch St Golden, CO 80401 303-273-3500 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1800 11th St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. | | b. | | c. | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

521852 *De*

FOOTHILLS LANDFILL
 8700 HIGHWAY 73
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 588257 | 0000 |
| WEIGHMASTER | | |
| BS00006 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 11:54 am |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 11:54 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592175 | | |

00 Gross Weight 83,460.00 lb
 Tare Weight 37,700.00 lb Inbound --
 Net Weight 45,760.00 lb 22.88 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.88 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0592174

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 500 15th St Golden, CO 80401 303-275-0800 | | | 5. Generating Location (if different) 2001 S. School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-275-0800 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1000 May St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Metal Sol | | 01-17-2000-11576 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Yards | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Thompson | | Signature [Signature] | | Month Day Year 05/19/02 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Lopez | | Signature [Signature] | | Month Day Year 08/29/02 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

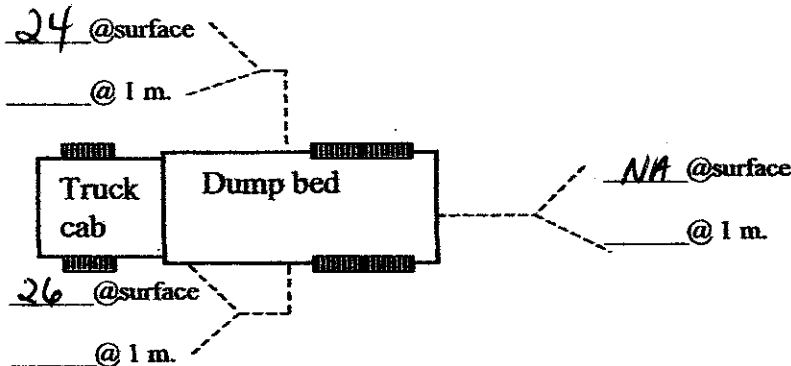
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8-29-07 1201 Surveyed by: CHicks, J Mattson
 Trucking Company: Gnere Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

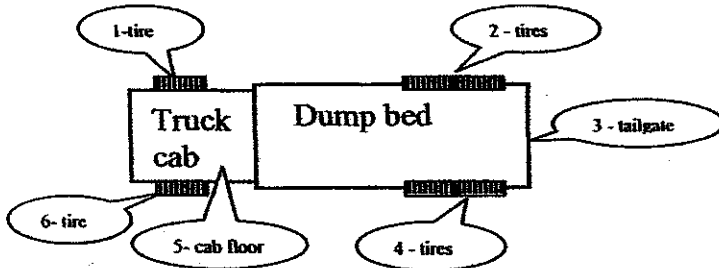
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 8 µrem/hr | α 2.0 cpm | β 255 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 54.4 dpm | 556.1 dpm |



NON-HAZARDOUS WASTE MANIFEST

961
0592157

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|--------------------------------|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1900 14th St Golden, CO 80401 303-273-0950 | | | | 5. Generating Location (if different) East School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0950 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address 7500 E. 1st Ave Golden, CO 80401 Allied Waste is located at the East School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity Cu Yards | 20. Unit Wt/Vol Tons |
| | | | | No. | Type | | |
| a. Hazardous | | CCL 127 (75000) 1/1/1915 | | | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature | | Month Day Year 1 29 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Steve Beaman | | | | Signature | | Month Day Year 1 29 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

511364

FOOTHILLS LANDFILL
 8900 HIGHWAY 95
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558267 | 0000 |
| WEIGHMASTER | | |
| 0500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 29 August 2007 | 12:10 pm | |
| DATE OUT | TIME OUT | |
| 29 August 2007 | 12:10 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 552174 | | |

Gross Weight 80,740.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 45,040.00 lb 22.52 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.52 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0592157

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1700 W. 1st St. Tomball, TX 77480 281-273-7900 | | | | 5. Generating Location (if different) Cotton School of Mines Research Institute 404th West of 12th and Portland Dallas, TX 75241 214-773-2160 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1700 W. 1st St. Tomball, TX 77480 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Iron Soil | | 10/17/07 0000 YS-11215 | | 19. Total Quantity 1 Yards | |
| b. | | | | 20. Unit Wt/Vol | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Dick Berman | | | | Signature [Signature] | |
| | | | | Month Day Year 9 29 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 9 29 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

TRANSPORTER #1

COM000033

511869

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 558274 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 29 August 2007 | | 12:22 pm |
| DATE OUT | | TIME OUT |
| 29 August 2007 | | 12:22 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592157 | | |

Gross Weight 21,140.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 46,740.00 lb 23.37 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

8/23/07 cont.

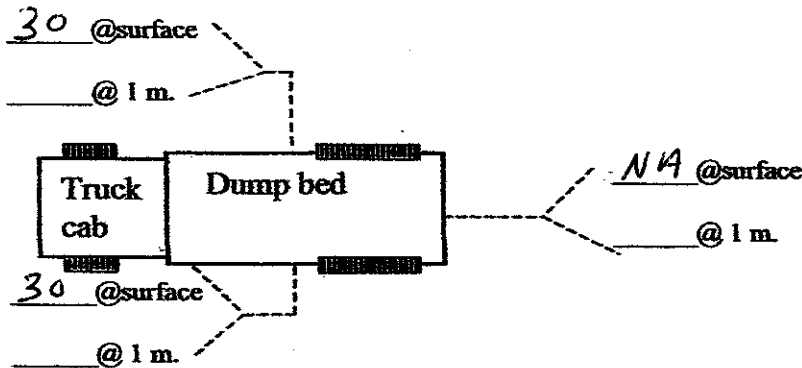
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|--------|
| Murray 461 | 8/23/07 | 1215 | 1225 | 18 | 86500 |
| JD 04 | - | 1220 | 1232 | | 80200 |
| Collazo 13 | - | 1225 | 1238 | | 88400 |
| Marquez 961 | - | 1240 | 1252 | | 85,200 |
| Grieve 8 | - | 1245 | 1300 | | 88,600 |
| Ruiz 95 | - | 1250 | 1307 | | 80,800 |
| Grieve 12 | - | 1255 | 1315 | | 89,900 |
| Grieve 24 | - | 1300 | 1322 | | 82700 |
| Grieve 23 | - | 1305 | 1330 | | 85300 |
| JD 01 | - | 1320 | 1336 | | 80,600 |
| Marquez 96 | - | 1325 | 1343 | | 79,500 |
| Murray 461 | - | 1340 | 1350 | | 83,400 |
| JD 04 | - | 1350 | 1359 | | 80,200 |
| Collazo 13 | - | 1400 | 1406 | | 83,600 |
| Marquez 961 | - | 1405 | 1417 | | 81,700 |
| Grieve 8 | - | 1405 | 1425 | | 84,500 |
| Ruiz 95 | - | 1410 | 1430 | | 77,900 |
| Grieve 12 | - | 1425 | 1440 | | 82700 |
| Grieve 24 | - | 1430 | 1445 | | 80,300 |
| JD 01 | ↓ | 1440 | 1454 | ↓ | 75,200 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1225 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

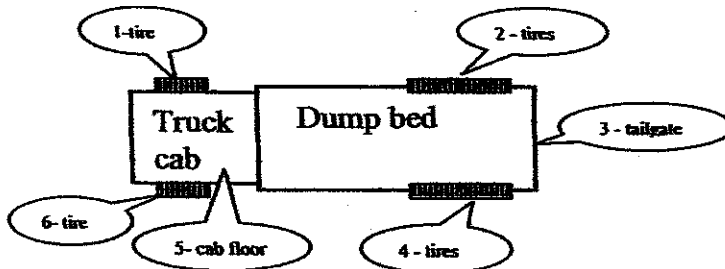
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507145 461

FOOTHILLS LANDFILL
 8500 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 366561 | GRID 0000 |
| WEIGHMASTER BS00056 Barbers Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 12:45 pm |
| DATE OUT 23 August 2007 | | TIME OUT 12:45 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 892498 | ORIGIN | |

Gross Weight 86,480.00 lb
 Tare Weight 34,260.00 lb Inbound --
 Net Weight 52,220.00 lb 26.11 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 26.11 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE Mike May



461

NON-HAZARDOUS WASTE MANIFEST

0592498

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|--|--|-------|-------|----|--|--|--|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Toothill Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <th></th> <th></th> <th>Drums</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | Drums | Other | a. | | | | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Drums | Other | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Norm Soil | | CO L07 070908 Y511915 | | 18 Y-Yards | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steve Brinkman | | | | 8/23/07 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mike Murray | | | | 8/23/07 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

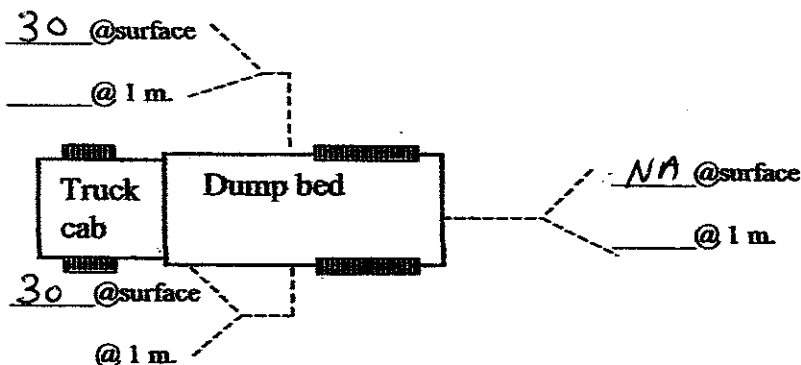
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1232 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

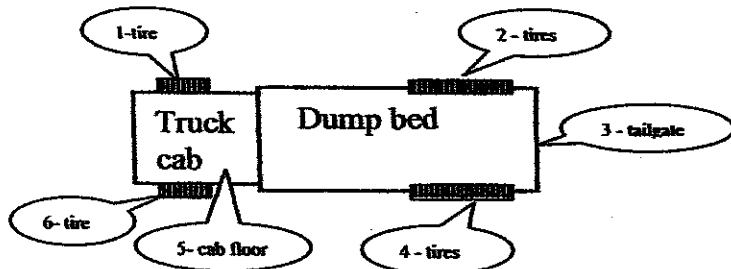
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507151 04

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

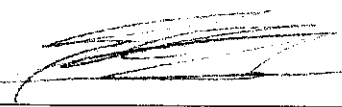
Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 584567 | GRID 0000 |
| WEIGHMASTER 2500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 12:50 pm |
| DATE OUT 23 August 2007 | | TIME OUT 12:50 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592479 | ORIGIN | |

Gross Weight 80,240.00 lb
 Tare Weight 35,640.00 lb Inbound --
 Net Weight 44,600.00 lb 22.30 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.30 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE  8-23-07

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592499

Please print or type.

| | | | | | |
|--|--|---|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 18000 Hwy 93 Golden, CO ACCOUNT # 980613 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 8 27 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name SANT, 990 Vargas | | Signature | | Month Day Year 8 27 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8 27 | |

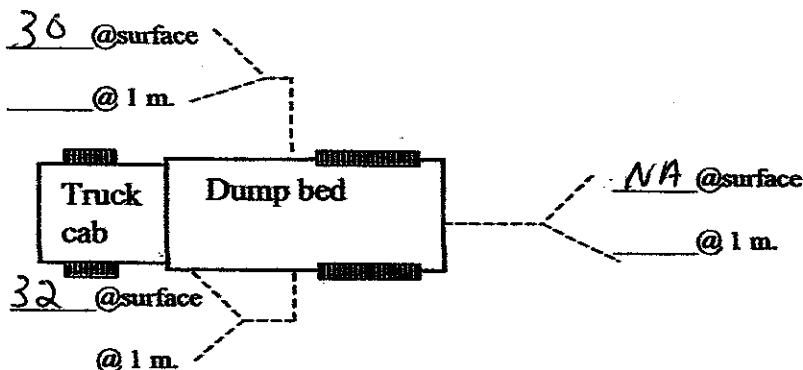
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1238 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

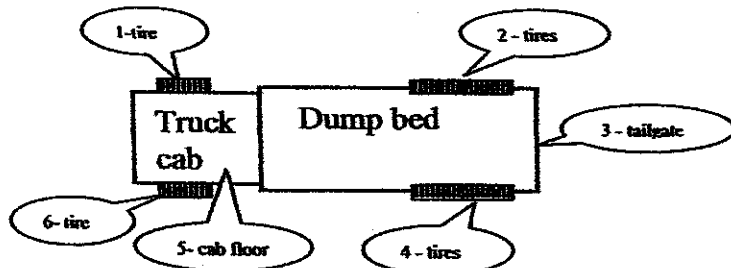
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507158

B

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 566572 | 0000 |
| WEIGHMASTER | | |
| BSC0056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 12:56 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 12:58 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592500 | | |

00 Gross Weight 88,440.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 52,740.00 lb 26.37 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 26.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0592500

13

Please print or type.

| | | | | | | | |
|--|--|--|---|----------------------------|--|--|---------------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Frontiers Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity D-Drums Y-Yards | 20. Unit Wt/Vol G-Gallons -Tons |
| | | | | No. Type | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] | | Month Day Year 8/29/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Rafael Colon Lopez | | | | Signature [Signature] | | Month Day Year 08/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

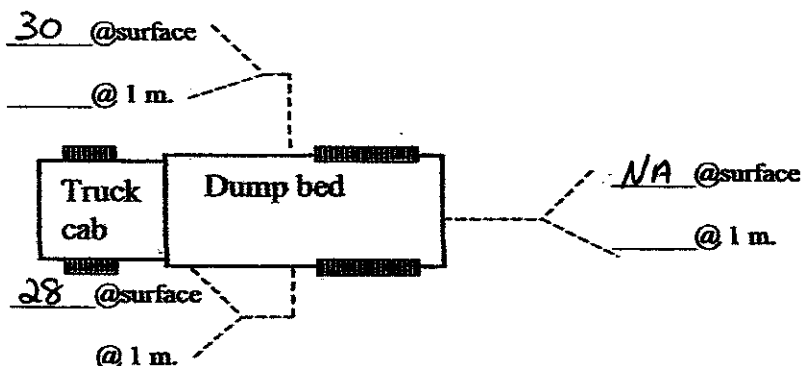
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1252 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

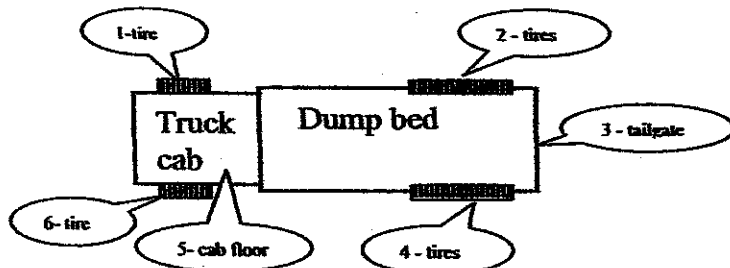
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507170 9/6/

FOOTMILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586587 | GRID 0000 |
| WEIGHMASTER BS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 1:16 pm |
| DATE OUT 23 August 2007 | | TIME OUT 1:16 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645002 | ORIGIN | |

Gross Weight 85,220.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 50,820.00 lb 25.41 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 25.41 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE A. A.

ALLIED WASTE



NON-HAZARDOUS WASTE MANIFEST

0645002

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | | | Drums |
| a. Non Soil | | CO L67 07/908 Y511915 | | | 6 | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature | | Month 8 | Day 23 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Armando Lopez | | | | Signature | | Month 4 | Day 27 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

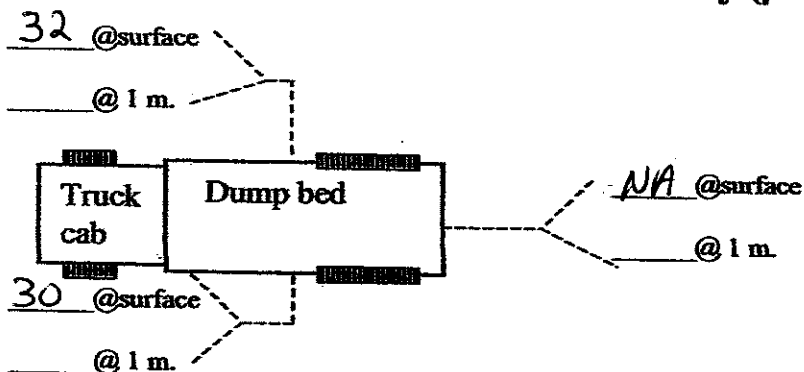
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1300 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

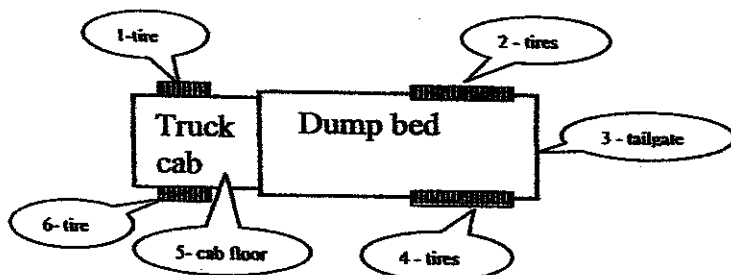
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507174 8

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 584591 | GRID 0000 |
| WEIGHMASTER PS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 1:22 pm |
| DATE OUT 23 August 2007 | | TIME OUT 1:22 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645003 | ORIGIN | |

Gross Weight 88,600.00 lb
 Tare Weight 36,540.00 lb Inbound -
 Net Weight 52,060.00 lb 26.03 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 26.03 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645003

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () 303-273-3998 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

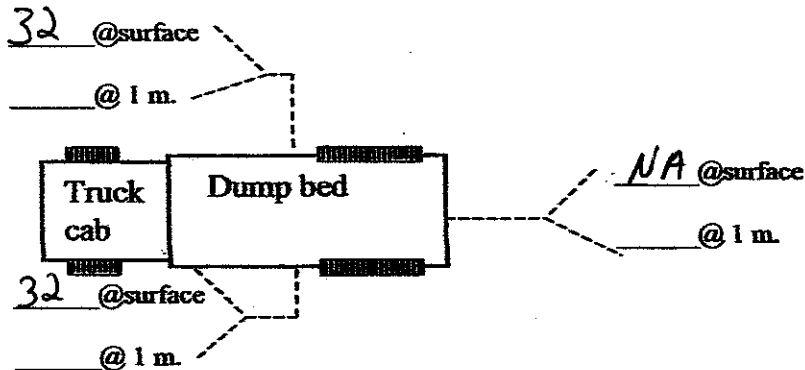
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1307 Surveyed by: J Matson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

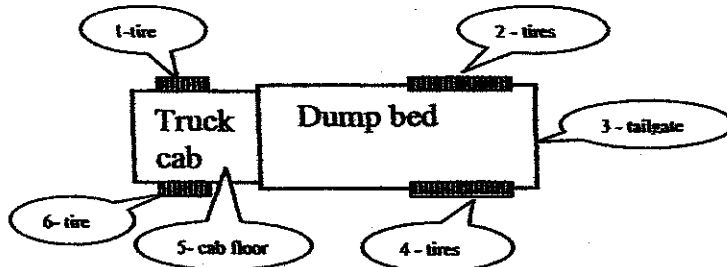
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507178 35

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960608
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586573 | GRID 0000 |
| WEIGHMASTER BS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 1:28 pm |
| DATE OUT 23 August 2007 | | TIME OUT 1:28 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645004 | ORIGIN | |

Gross Weight 80,800.00 lb
Tare Weight 36,980.00 lb
Net Weight 43,820.00 lb 21.91 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.91 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



95

NON-HAZARDOUS WASTE MANIFEST

0645004

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foot Hills Landfill 2900 Hwy 93 Golden CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons | |
| b. | | | | Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| M. L. Long | | | | 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

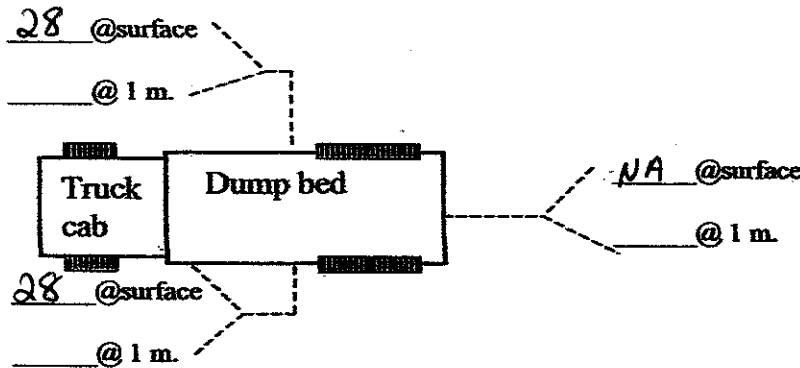
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1315 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 12 24 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

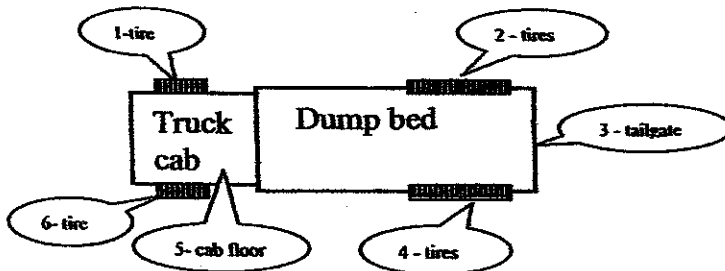
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507182

12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 506599 | GRID 0000 |
| WEIGHMASTER B500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 1:31 pm |
| DATE OUT 23 August 2007 | | TIME OUT 1:31 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645005 | ORIGIN | |

Gross Weight 39,860.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 52,160.00 lb 26.08 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 26.08 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

2

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645005

Please print or type

| | | | | | | | | | | | |
|--|--|--|--|--|--|--------------------|--|----------------|--|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name Green Trucking #12. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8800 Hwy 93 Golden, CO ACCOUNT # 860803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Non Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit | | | |
| | | | | No. Type | | Drums Gallons | | Y-Yards T-Tons | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 8 | | Day 23 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | | Day 23 | | Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |

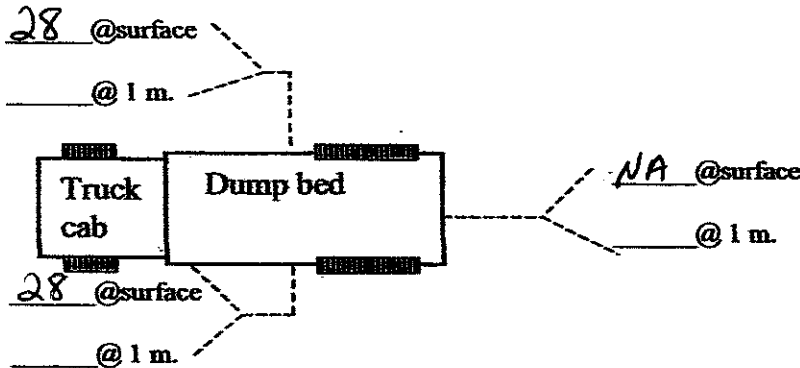
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1322 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grievre Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

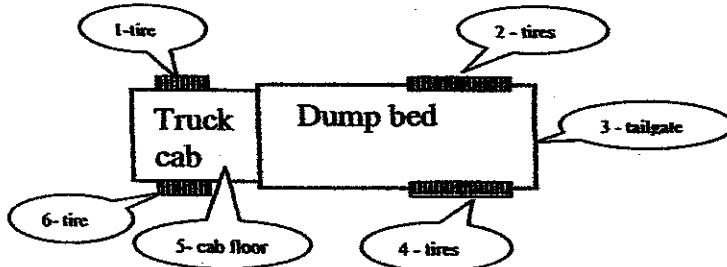
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

24 507188

| | | |
|----------------------------|---------------------|--------------|
| SITE 01 | TICKET 586606 | GRID 0000 |
| WEIGHMASTER | | |
| 6500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | TIME IN 1:41 pm | |
| DATE OUT 23 August 2007 | TIME OUT 1:41 pm | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 592485 | ORIGIN | |

Gross Weight 82,700.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 45,500.00 lb 22.75 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.75 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

KERS



24

NON-HAZARDOUS WASTE MANIFEST

0592485

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Booths Landfill 8200 Hwy 93 Golden, CO ACCOUNT # 000003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity D. Drums G. Gallons | |
| a. Norm Soil | | CO 157 0708/5 1511915 | | 18 Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] Month 08 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR
↓
TRANSPORTER
↓
T/S/D FACILITY

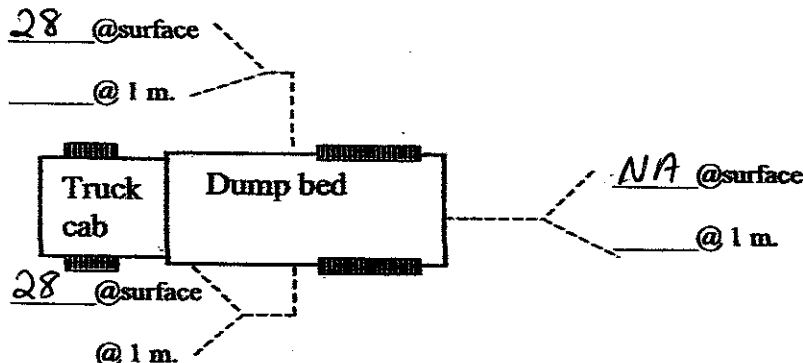
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1330 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

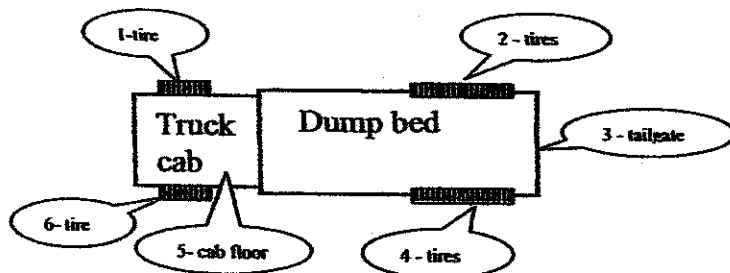
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507192 23

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960803
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586610 | GRID 0000 |
| WEIGHMASTER ES00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 1:47 pm |
| DATE OUT 23 August 2007 | | TIME OUT 1:47 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592486 | ORIGIN | |

Gross Weight 85,300.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 50,200.00 lb 25.10 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | |
|-------|------|-------------------|------|-----------|-----|--|
| 25.10 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



23

NON-HAZARDOUS WASTE MANIFEST

0592486

Please print or type:

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address F. Schullis Landfill 8500 Hwy 33 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums C-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| MARK PHELAN | | | | 8 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

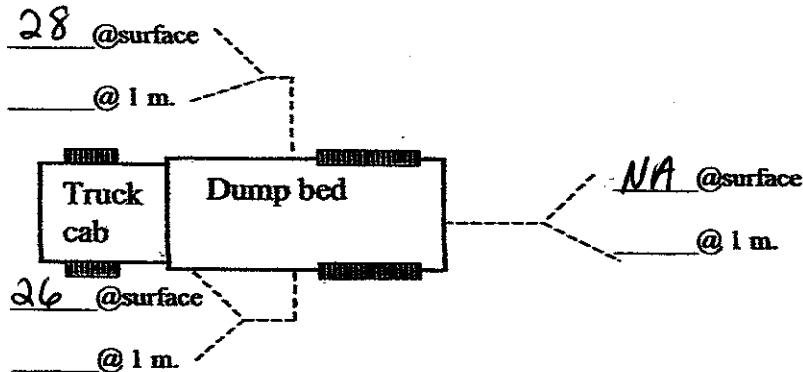
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1336 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: JD 01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

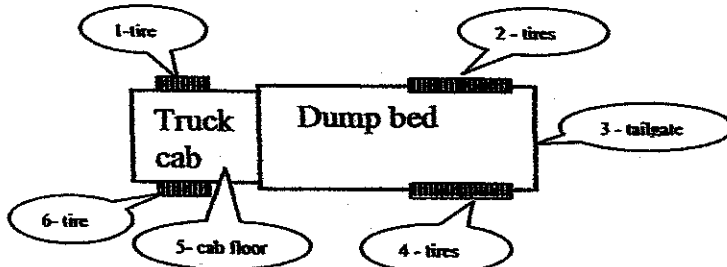
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507103 01

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586611 | GRID 0000 |
| WEIGHMASTER ES00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 1:54 pm |
| DATE OUT 23 August 2007 | | TIME OUT 1:54 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592487 | ORIGIN | |

Gross Weight 80,560.00 lb
Tare Weight 35,580.00 lb
Net Weight 44,980.00 lb 22.49 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.49 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0592487

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8500 Hwy 93 Golden, CO ACCOUNT # 960005 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Drums 0 Gallons | | | | | |
| 20. Unit Y-Yards T-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | Signature | | Month Day Year 6 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

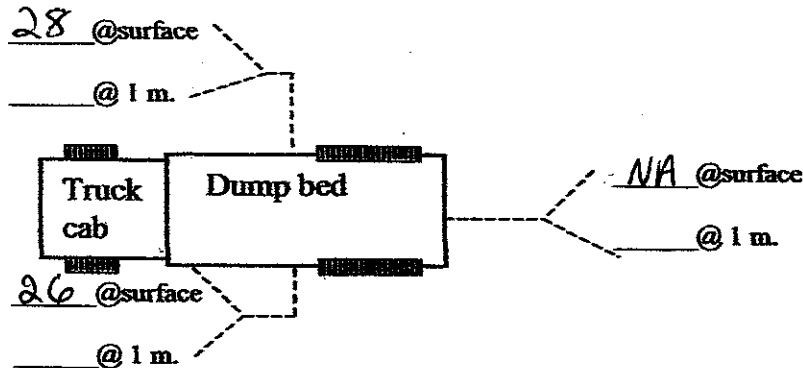
TRANSPORTER #2

CWM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1343 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

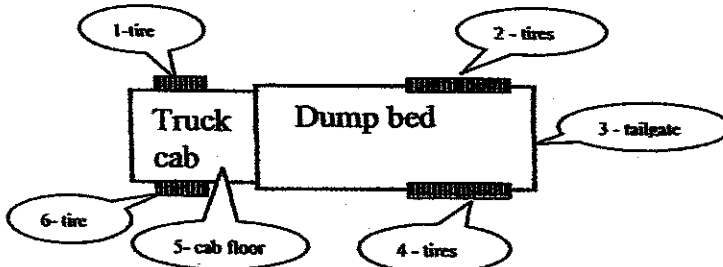
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507198 96

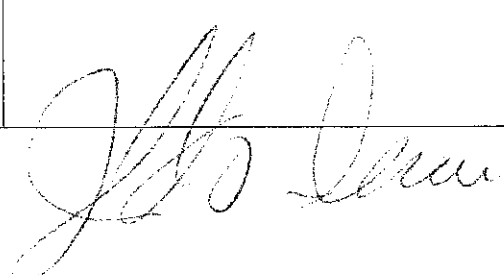
FOOTHILLS LANDFILL
 9900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588618 | 0000 |
| WEIGHMASTER | | |
| 5900056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 2:06 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 2:06 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592488 | | |

00 Gross Weight 79,500.00 lb
 Tare Weight 36,580.00 lb Inbound -
 Net Weight 42,920.00 lb 21.46 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.46 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



96

NON-HAZARDOUS WASTE MANIFEST

0592488

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 921803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity D-Drums B-Gallons | |
| a. Norm Soil | | CO L87 070908 Y511915 | | Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Beckman | | | | 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Puma | | | | 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

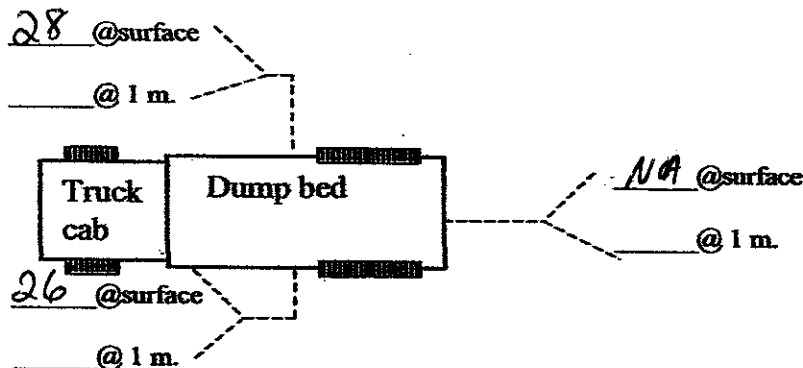
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1350 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

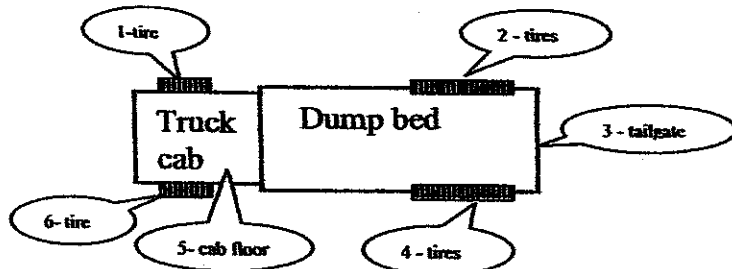
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

461

Contract #: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 536618 | 0000 |
| WEIGHMASTER | | |
| ES00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 23 August 2007 | | 2:09 pm |
| DATE OUT | | TIME OUT |
| 23 August 2007 | | 2:09 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592489 | | |

| | | | |
|-----------------|-----------|----|----------|
| 00 Gross Weight | 83,400.00 | lb | |
| Tare Weight | 34,260.00 | lb | |
| Net Weight | 49,140.00 | lb | 24.57 TN |

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.57 | TN | SU-COMT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|-------------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0592489

461

Please print or type.

| | | | | | | | |
|--|--|---|--|--|------|---|------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3898 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 460603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity D-Drums G-Gallons | 20. Unit Wt/Vol G-Gallons |
| | | | | No. | Type | | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 | Y | Y-Yards | -Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature | | Month Day Year 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature | | Month Day Year 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

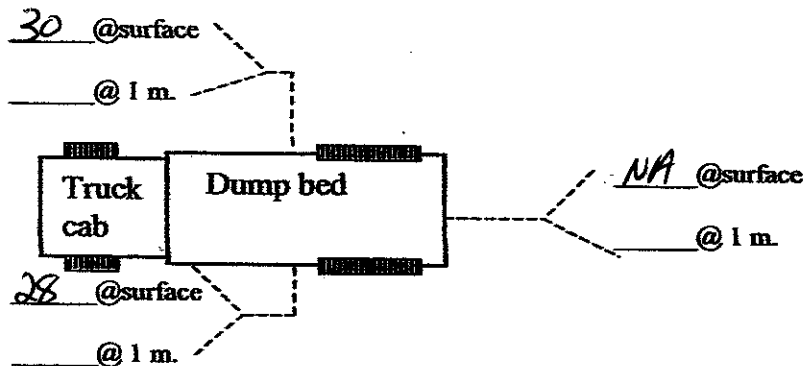
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1359 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

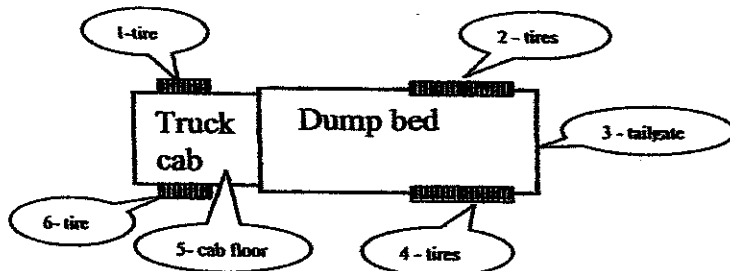
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507206

04

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586624 | 0000 |
| WEIGHMASTER | | |
| ES00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 2:18 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 2:18 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592494 | | |

OG Gross Weight 80,290.00 lb
 Tare Weight 35,640.00 lb Inbound -
 Net Weight 44,640.00 lb 22.32 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.32 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

8-23-07



04

NON-HAZARDOUS WASTE MANIFEST

0592494

Please print or type.

| | | | | | | | |
|--|--|---|--|---|------|--|---------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0 Drums Y-Yards | 20. Unit G-Gallons T-Tons |
| | | | | No. | Type | | |
| a. Norm Soil | | CO L67 070908 Y511915 | | | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature | | Month Day Year 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature | | Month Day Year 8 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

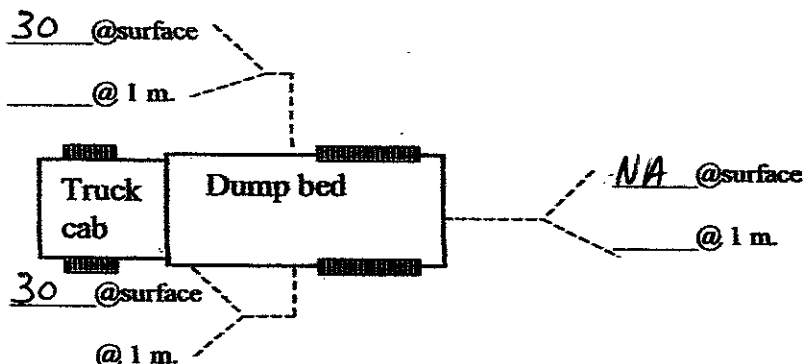
TRANSPORTER #2

COM000035

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1406 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

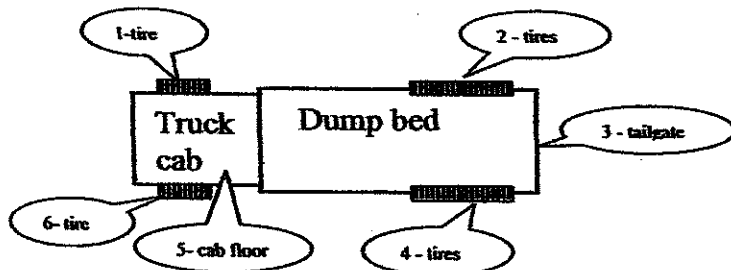
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6% | 13.9% | |
| MDA | NA | 43.5 | 569.6 | |

507212 13

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 566630 | GRID 0000 |
| WEIGHMASTER BS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 2:24 pm |
| DATE OUT 23 August 2007 | | TIME OUT 2:24 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 592473 | ORIGIN | |

.00 Gross Weight 83,560.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 47,860.00 lb 23.93 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.93 | TN | SW-CDNT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten signature]



13

NON-HAZARDOUS WASTE MANIFEST

0592475

Please print or type.

| | | | | | |
|--|--|--|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900803 (Colorado School of Mines) | | 14. US EPA ID Number | |
| 15. Facility's Phone | | 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | |
| 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| No. | | Type | | D-Drums G-Gallons Y-Yards T-Tons | |
| a. | | b. | | c. | |
| d. | | e. | | f. | |
| g. | | h. | | i. | |
| j. | | k. | | l. | |
| m. | | n. | | o. | |
| p. | | q. | | r. | |
| s. | | t. | | u. | |
| v. | | w. | | x. | |
| y. | | z. | | aa. | |
| ab. | | ac. | | ad. | |
| ae. | | af. | | ag. | |
| ah. | | ai. | | aj. | |
| ak. | | al. | | am. | |
| an. | | ao. | | ap. | |
| aq. | | ar. | | as. | |
| at. | | au. | | av. | |
| aw. | | ax. | | ay. | |
| az. | | ba. | | bb. | |
| bc. | | bd. | | be. | |
| bf. | | bg. | | bh. | |
| bi. | | bj. | | bk. | |
| bl. | | bm. | | bn. | |
| bo. | | bp. | | bq. | |
| br. | | bs. | | bt. | |
| bu. | | bv. | | bw. | |
| bx. | | by. | | bz. | |
| ca. | | cb. | | cc. | |
| cd. | | ce. | | cf. | |
| cg. | | ch. | | ci. | |
| cj. | | ck. | | cl. | |
| cm. | | cn. | | co. | |
| cp. | | cq. | | cr. | |
| cs. | | ct. | | cu. | |
| cv. | | cw. | | cx. | |
| cy. | | cz. | | da. | |
| db. | | dc. | | dd. | |
| de. | | df. | | dg. | |
| dh. | | di. | | dj. | |
| dk. | | dl. | | dm. | |
| dn. | | do. | | dp. | |
| dq. | | dr. | | ds. | |
| dt. | | du. | | dv. | |
| dw. | | dx. | | dy. | |
| dz. | | ea. | | eb. | |
| ec. | | ed. | | ee. | |
| ef. | | eg. | | eh. | |
| ei. | | ej. | | ek. | |
| el. | | em. | | en. | |
| eo. | | ep. | | eq. | |
| er. | | es. | | et. | |
| eu. | | ev. | | ew. | |
| ex. | | ey. | | ez. | |
| fa. | | fb. | | fc. | |
| fd. | | fe. | | ff. | |
| fg. | | fh. | | fi. | |
| fj. | | fk. | | fl. | |
| fm. | | fn. | | fo. | |
| fp. | | fq. | | fr. | |
| fs. | | ft. | | fu. | |
| fv. | | fw. | | fx. | |
| fy. | | fz. | | ga. | |
| gb. | | gc. | | gd. | |
| ge. | | gf. | | gg. | |
| gh. | | gi. | | gj. | |
| gk. | | gl. | | gm. | |
| gn. | | go. | | gp. | |
| gq. | | gr. | | gs. | |
| gt. | | gu. | | gv. | |
| gw. | | gx. | | gy. | |
| gz. | | ha. | | hb. | |
| hc. | | hd. | | he. | |
| hf. | | hg. | | hh. | |
| hi. | | hj. | | hk. | |
| hl. | | hm. | | hn. | |
| ho. | | hp. | | hq. | |
| hr. | | hs. | | ht. | |
| hu. | | hv. | | hw. | |
| hx. | | hy. | | hz. | |
| ia. | | ib. | | ic. | |
| id. | | ie. | | if. | |
| ig. | | ih. | | ii. | |
| ij. | | ik. | | il. | |
| im. | | in. | | io. | |
| ip. | | iq. | | ir. | |
| is. | | it. | | iu. | |
| iv. | | iw. | | ix. | |
| iy. | | iz. | | ja. | |
| jb. | | jc. | | jd. | |
| je. | | jf. | | jg. | |
| jh. | | ji. | | jj. | |
| jk. | | jl. | | jm. | |
| jn. | | jo. | | jp. | |
| jq. | | jr. | | js. | |
| jt. | | ju. | | jv. | |
| jw. | | jx. | | jy. | |
| jz. | | ka. | | kb. | |
| kc. | | kd. | | ke. | |
| kf. | | kg. | | kh. | |
| ki. | | kj. | | kk. | |
| kl. | | km. | | kn. | |
| ko. | | kp. | | kq. | |
| kr. | | ks. | | kt. | |
| ku. | | kv. | | kw. | |
| kx. | | ky. | | kz. | |
| la. | | lb. | | lc. | |
| ld. | | le. | | lf. | |
| lg. | | lh. | | li. | |
| lj. | | lk. | | ll. | |
| lm. | | ln. | | lo. | |
| lp. | | lq. | | lr. | |
| ls. | | lt. | | lu. | |
| lv. | | lw. | | lx. | |
| ly. | | lz. | | ma. | |
| mb. | | mc. | | md. | |
| me. | | mf. | | mg. | |
| mh. | | mi. | | mj. | |
| mk. | | ml. | | mm. | |
| mn. | | mo. | | mp. | |
| mq. | | mr. | | ms. | |
| mt. | | mu. | | mv. | |
| mw. | | mx. | | my. | |
| mz. | | na. | | nb. | |
| nc. | | nd. | | ne. | |
| nf. | | ng. | | nh. | |
| ni. | | nj. | | nk. | |
| nl. | | nm. | | nn. | |
| no. | | np. | | nq. | |
| nr. | | ns. | | nt. | |
| nu. | | nv. | | nw. | |
| nx. | | ny. | | nz. | |
| oa. | | ob. | | oc. | |
| od. | | oe. | | of. | |
| og. | | oh. | | oi. | |
| oj. | | ok. | | ol. | |
| om. | | on. | | oo. | |
| op. | | oq. | | or. | |
| os. | | ot. | | ou. | |
| ov. | | ow. | | ox. | |
| oy. | | oz. | | pa. | |
| pb. | | pc. | | pd. | |
| pe. | | pf. | | pg. | |
| ph. | | pi. | | pj. | |
| pk. | | pl. | | pm. | |
| pn. | | po. | | pp. | |
| pq. | | pr. | | ps. | |
| pt. | | pu. | | pv. | |
| pw. | | px. | | py. | |
| pz. | | qa. | | qb. | |
| qc. | | qd. | | qe. | |
| qf. | | qg. | | qh. | |
| qi. | | qj. | | qk. | |
| ql. | | qm. | | qn. | |
| qo. | | qp. | | qq. | |
| qr. | | qs. | | qt. | |
| qu. | | qv. | | qw. | |
| qx. | | qy. | | qz. | |
| ra. | | rb. | | rc. | |
| rd. | | re. | | rf. | |
| rg. | | rh. | | ri. | |
| rj. | | rk. | | rl. | |
| rm. | | rn. | | ro. | |
| rp. | | rq. | | rr. | |
| rs. | | rt. | | ru. | |
| rv. | | rw. | | rx. | |
| ry. | | rz. | | sa. | |
| sb. | | sc. | | sd. | |
| se. | | sf. | | sg. | |
| sh. | | si. | | sj. | |
| sk. | | sl. | | sm. | |
| sn. | | so. | | sp. | |
| sq. | | sr. | | ss. | |
| st. | | su. | | sv. | |
| sw. | | sx. | | sy. | |
| sz. | | ta. | | tb. | |
| tc. | | td. | | te. | |
| tf. | | tg. | | th. | |
| ti. | | tj. | | tk. | |
| tl. | | tm. | | tn. | |
| to. | | tp. | | tq. | |
| tr. | | ts. | | tt. | |
| tu. | | tv. | | tw. | |
| tx. | | ty. | | tz. | |
| ua. | | ub. | | uc. | |
| ud. | | ue. | | uf. | |
| ug. | | uh. | | ui. | |
| uj. | | uk. | | ul. | |
| um. | | un. | | uo. | |
| up. | | uq. | | ur. | |
| us. | | ut. | | uu. | |
| uv. | | uw. | | ux. | |
| uy. | | uz. | | va. | |
| vb. | | vc. | | vd. | |
| ve. | | vf. | | vg. | |
| vh. | | vi. | | vj. | |
| vk. | | vl. | | vm. | |
| vn. | | vo. | | vp. | |
| vq. | | vr. | | vs. | |
| vt. | | vu. | | vv. | |
| vw. | | vx. | | vy. | |
| vz. | | wa. | | wb. | |
| wc. | | wd. | | we. | |
| wf. | | wg. | | wh. | |
| wi. | | wj. | | wk. | |
| wl. | | wm. | | wn. | |
| wo. | | wp. | | wq. | |
| wr. | | ws. | | wt. | |
| wu. | | wv. | | ww. | |
| wx. | | wy. | | wz. | |
| xa. | | xb. | | xc. | |
| xd. | | xe. | | xf. | |
| xg. | | xh. | | xi. | |
| xj. | | xk. | | xl. | |
| xm. | | xn. | | xo. | |
| xp. | | xq. | | xr. | |
| xs. | | xt. | | xu. | |
| xv. | | xw. | | xx. | |
| xy. | | xz. | | ya. | |
| yb. | | yc. | | yd. | |
| ye. | | yf. | | yg. | |
| yh. | | yi. | | yj. | |
| yk. | | yl. | | ym. | |
| yn. | | yo. | | yp. | |
| yq. | | yr. | | ys. | |
| yt. | | yu. | | yv. | |
| yw. | | yx. | | yy. | |
| yz. | | za. | | zb. | |
| zc. | | zd. | | ze. | |
| zf. | | zg. | | zh. | |
| zi. | | zj. | | zk. | |
| zl. | | zm. | | zn. | |
| zo. | | zp. | | zq. | |
| zr. | | zs. | | zt. | |
| zu. | | zv. | | zw. | |
| zx. | | zy. | | zz. | |

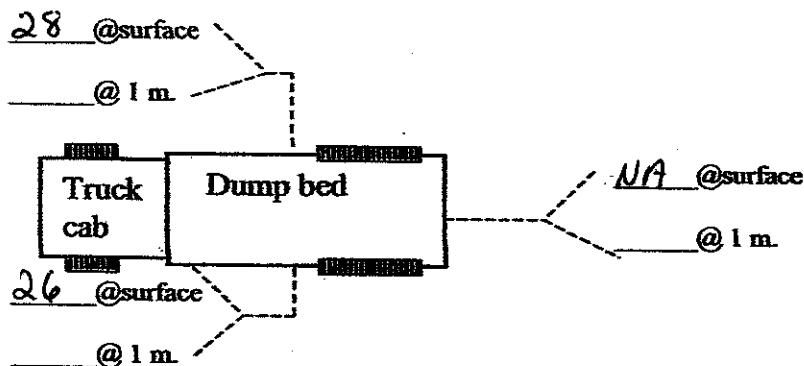
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1417 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

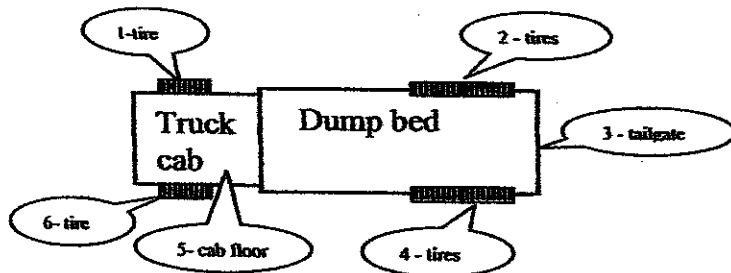
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507218 96

FOOTHILLS LANDFILL
 8700 HIGHWAY 90
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556636 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 2:36 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 2:36 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 5924760 | | |

00 Gross Weight 81,740.00 lb
 Tare Weight 34,400.00 lb Inbound -
 Net Weight 47,340.00 lb 23.67 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.67 | TN | SW-CDNT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

A. M.



361

NON-HAZARDOUS WASTE MANIFEST

0592476

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 93 Golden, CO ACCOUNT # 800003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | D-Drums | U-Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | | | Y-Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature | | Month | Day | Year |
| | | | | | | 8 | 23 | 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| Alvarez | | | | Alvarez | | 8 | 23 | 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| Benjamin | | | | Benjamin | | 8 | 23 | 07 |

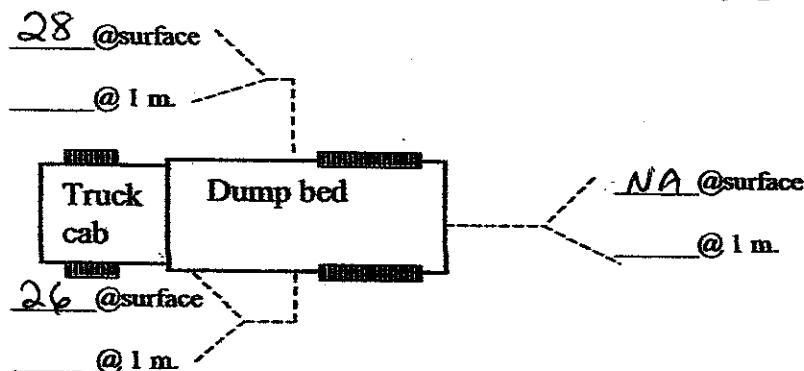
TRANSPORTER #2

COMP00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1425 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

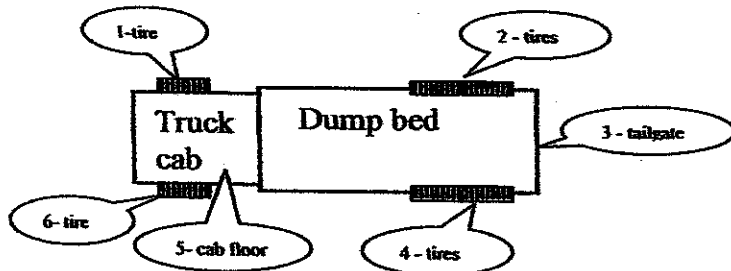
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

537223 8

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556638 | 0000 |
| WEIGHMASTER | | |
| ES00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 2:43 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 2:43 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592477 | | |

00 Gross Weight 84,540.00 lb
 Tare Weight 36,540.00 lb Inbound -
 Net Weight 48,000.00 lb 24.00 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.00 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0592477

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3990 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3990 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Cortez Landfill 6500 Hwy 93 Golden, CO ACCOUNT # 150002 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 20. Unit Wt/Vol | |
| | | | | No. Type | |
| a. Nam Soil | | CO 187 070908 1511915 | | 18 4 Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Berman | | | | 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

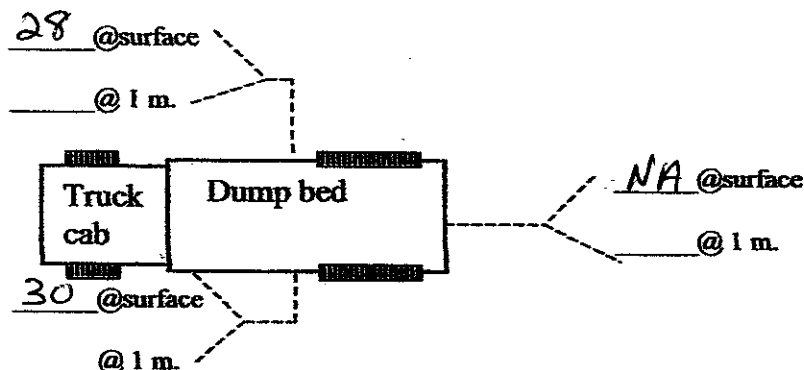
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1430 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

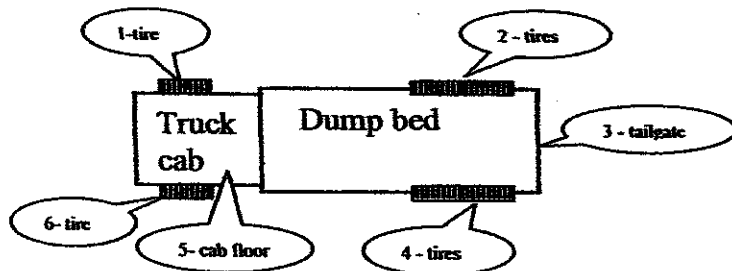
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507223 95

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586641 | GRID 0000 |
| WEIGHMASTER ES00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 2:50 pm |
| DATE OUT 23 August 2007 | | TIME OUT 2:50 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592478 | ORIGIN | |

00 Gross Weight 77,940.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 40,960.00 lb 20.48 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.48 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



[Handwritten Signature]

SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0592478

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | D-Drums | |
| | | | | Y-Yards | |
| | | | | T-Tons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Michael | | | | 8 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

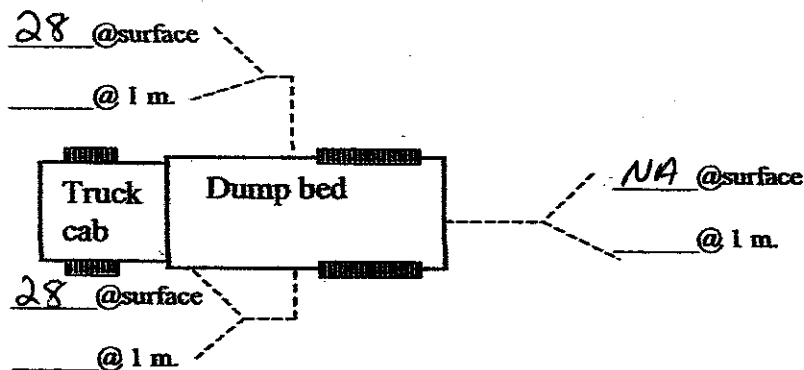
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1440 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

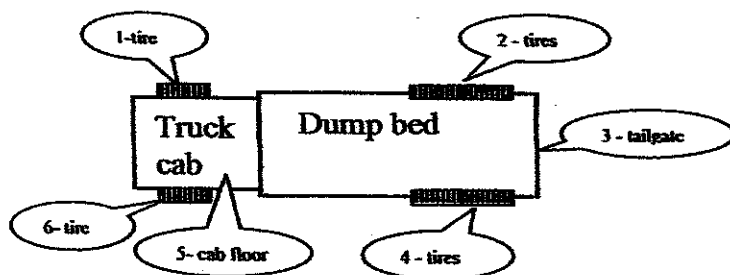
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507227 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586645 | GRID 0000 |
| WEIGHMASTER ES00036 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 2:55 pm |
| DATE OUT 23 August 2007 | | TIME OUT 2:55 pm |
| VEHICLE YS11915 | | ROLL OFF |
| REFERENCE 592479 | ORIGIN | |

00 Gross Weight 82,680.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 44,980.00 lb 22.49 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.49 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

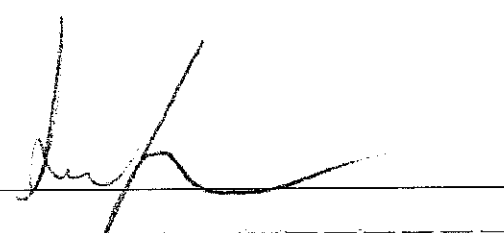
NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE






NON-HAZARDOUS WASTE MANIFEST

0592479

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Grieco Trucking 12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L07 070908 Y511915 | | 19. Total Quantity D-Drums 6-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Binkman | | Signature | | Month Day Year 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sean J Olson | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

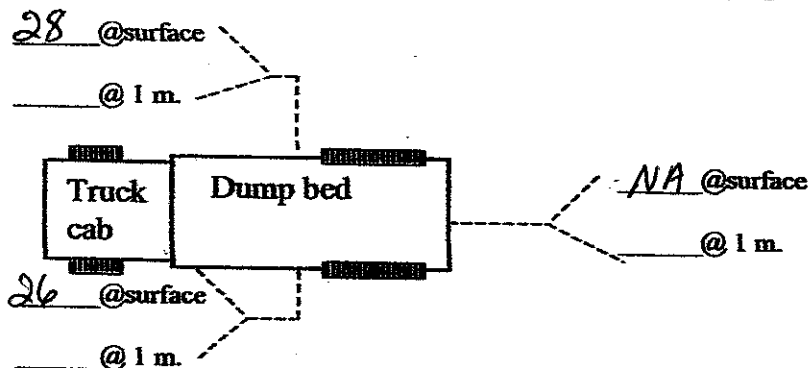
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1445 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

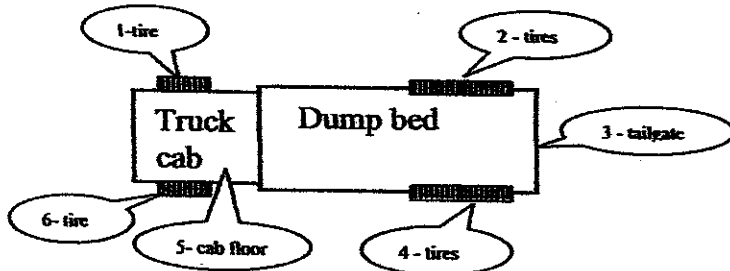
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

241
FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586652 | 0000 |
| WEIGHMASTER | | |
| 6800056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 3:02 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 3:02 PM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592480 | | |

00 Gross Weight 80,300.00 lb
Tare Weight 37,200.00 lb Inbound -
Net Weight 43,100.00 lb 21.55 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.55 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Kells



NON-HAZARDOUS WASTE MANIFEST

0592480

24

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
|--|------|---|---|---|--|-----|------|----|---|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO ACCOUNT # 144603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | |
| | | | | <table border="1"> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td>18</td> <td>Y</td> </tr> </table> | | No. | Type | 18 | Y |
| No. | Type | | | | | | | | |
| 18 | Y | | | | | | | | |
| a. Norm Soil | | CC 197 070908 1511015 | | 19. Total Quantity 11 Yards | | | | | |
| b. | | | | 20. Unit Tons | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 2 Day 23 Year 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] Month 08 Day 23 Year 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

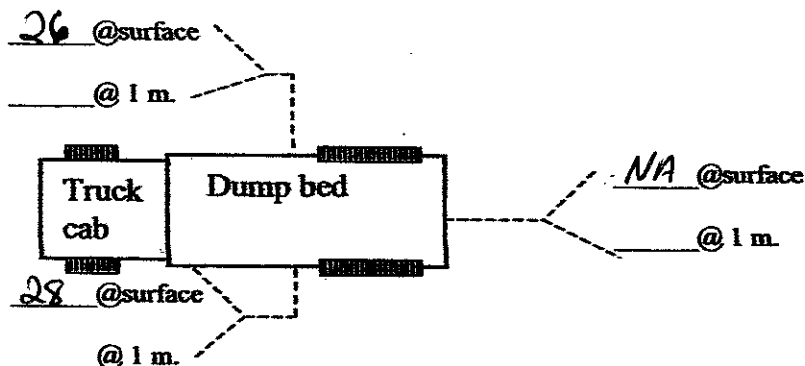
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1454 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

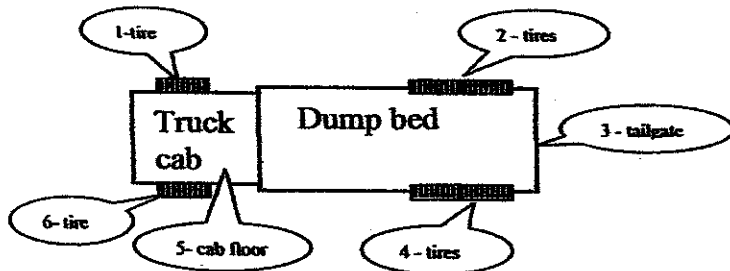
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

507238 01

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 556656 | GRID 0000 |
| WEIGHMASTER B500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 3:10 pm |
| DATE OUT 23 August 2007 | | TIME OUT 3:10 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592481 | ORIGIN | |

Gross Weight 75,180.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 39,600.00 lb 19.80 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.80 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

01
0592481

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 23 07 | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jose W Ruiz | | Signature | | Month Day Year 8 23 07 | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 23 07 | |

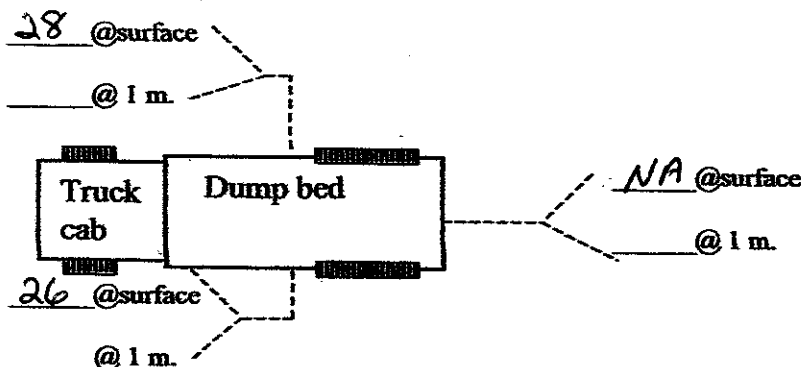
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1505 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

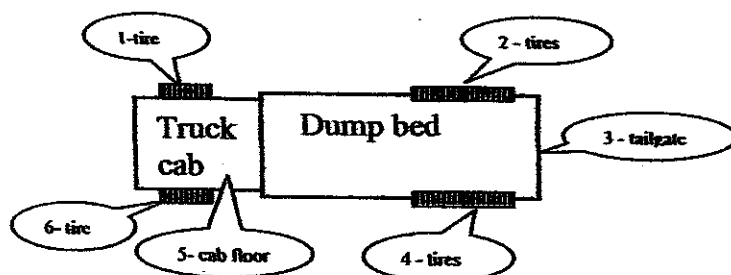
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507246 96

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 583664 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 3:21 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 3:21 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592462 | | |

00 Gross Weight 75,100.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 38,520.00 lb 19.26 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.26 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

96
0592482

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 93 Golden, CO ACCOUNT # 860003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CC L67 070908 7511515 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Barra | | | | 8 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Seth... | | | | 8 23 07 | |

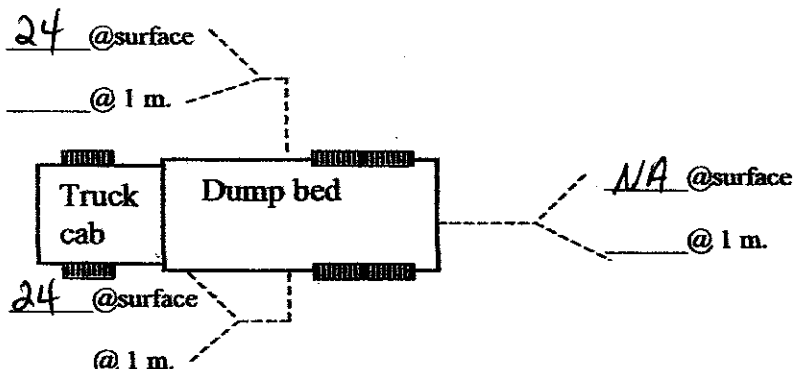
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1512 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

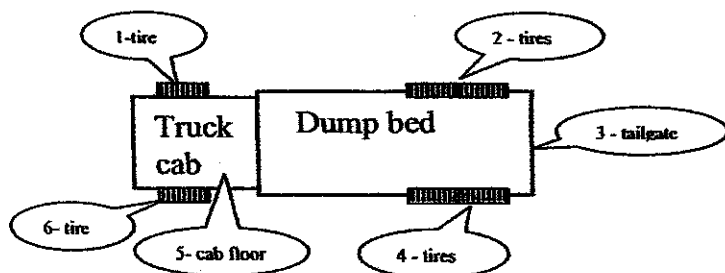
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

537253

46

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586670 | GRID 0000 |
| WEIGHMASTER BS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 3:31 pm |
| DATE OUT 23 August 2007 | | TIME OUT 3:31 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 592434 | ORIGIN | |

Gross Weight 76,360.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 42,100.00 lb 21.05 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

M. H. M.



NON-HAZARDOUS WASTE MANIFEST

0592484

Please print or type.

| | | | | | | | | |
|--|--|--|--|----------------------------|------|--------------------|----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Port Hills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 991803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | Drums | Gallons | |
| | | | | 18 | 4 | Y-Yards | T-Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] | | Month 8 | Day 23 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] | | Month 8 | Day 23 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 23 | Year 07 |

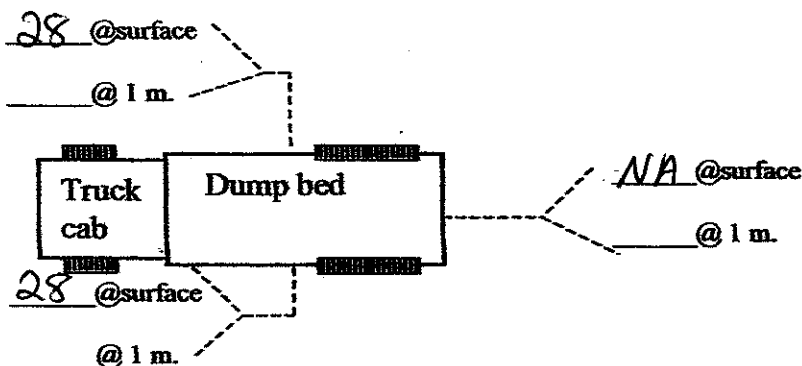
TRANSPORTER #2

COM0000

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1520 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

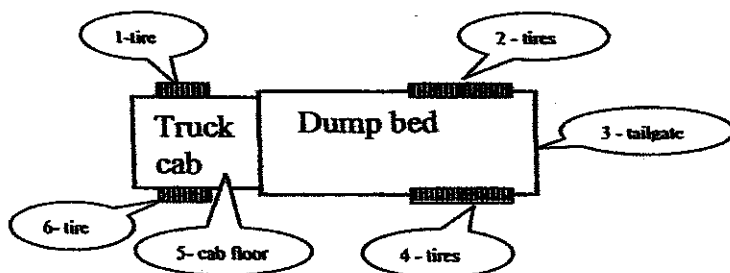
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

507259 04

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO

960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586676 | 0000 |
| WEIGHMASTER | | |
| R500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 3:37 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 3:37 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592483 | | |

Gross Weight 75,380.00 lb
Tare Weight 35,640.00 lb
Net Weight 39,740.00 lb 19.87 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.87 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature] 8-23-07



JD 04

NON-HAZARDOUS WASTE MANIFEST

0592483

Please print or type.

| | | | | | | | | | | | |
|--|--|--------------------------|--|---|--|----------------------------|--|------------------------|--|------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | | | | | | | |
| 4. Phone () 303-273-3898 | | | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6900 Hwy 90 Golden, CO ACCOUNT # 900903 (Colorado School of Mines) | | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Norm Soil | | | | CO L67 070908 Y511915 | | No. Type | | D. Drums G. Gallons | | Y. Yards T. Tons | |
| b. | | | | | | | | | | | |
| c. | | | | | | | | | | | |
| d. | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Brakman | | | | Signature | | | | Month Day Year 8 23 07 | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name Santiazo Vargas | | | | Signature | | | | Month Day Year | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | | |

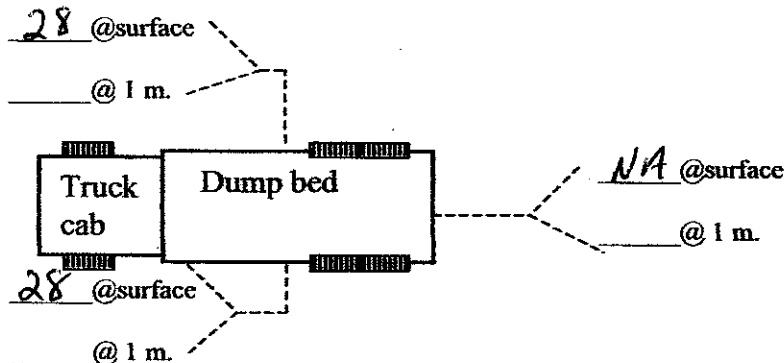
TRANSPORTER #2

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1530 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

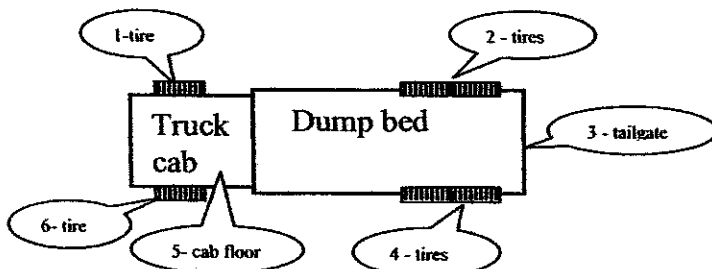
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

507266 13

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586683 | | 0000 | |
| WEIGHMASTER | | | | | |
| BS00056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 23 August 2007 | | | 3:47 pm | | |
| DATE OUT | | | TIME OUT | | |
| 23 August 2007 | | | 3:47 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 593465 | | | | | |

Gross Weight 79,840.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 44,140.00 lb 22.07 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.07 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

13
0592465

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3098 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Schulte Landfill 5900 Hwy 93 Golden, CO ACCOUNT # 960475 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Heavy Soil | | 001070700001-111515 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity Yards | | | | | |
| 20. Unit WT/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Daniel Colon Lopez | | Signature | | Month Day Year 08 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #2

COM000033

P.le B 8/23/07

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|--------|
| Grieve 8 | 8-23-07 | 0700 | 0723 | 18 | 80,900 |
| Ruiz 95 | - | 0700 | 0729 | | 76,400 |
| Grieve 12 | - | 0700 | 0737 | | 80,700 |
| Grieve 24 | - | 0700 | 0743 | | 81,300 |
| JD 01 | - | 0700 | 0749 | | 78,000 |
| Grieve 23 | - | 0700 | 0756 | | 80,900 |
| Marguez 961 | - | 0700 | 0803 | | 81,600 |
| Marguez 96 | - | 0700 | 0809 | | 76,500 |
| Murray 461 | - | 0700 | 0816 | | 78,900 |
| JD 04 | - | 0700 | 0820 | | 74,900 |
| Collazo 13 | - | 0700 | 0826 | | 79,700 |
| Grieve 8 | - | 0820 | 0839 | | 78,900 |
| Ruiz 95 | - | 0825 | 0844 | | 76,200 |
| Grieve 12 | - | 0835 | 0850 | | 80,400 |
| Grieve 24 | - | 0840 | 0856 | | 58,000 |
| JD 01 | - | 0845 | 0902 | | 78,800 |
| Grieve 23 | - | 0855 | 0905 | | 79,300 |
| Marguez 96 | - | 0915 | 0924 | | 74,700 |
| Murray 461 | - | 0920 | 0934 | | 77,400 |
| JD 04 | ↓ | 0925 | 0940 | ↓ | 73,800 |

8/23/07 cont.

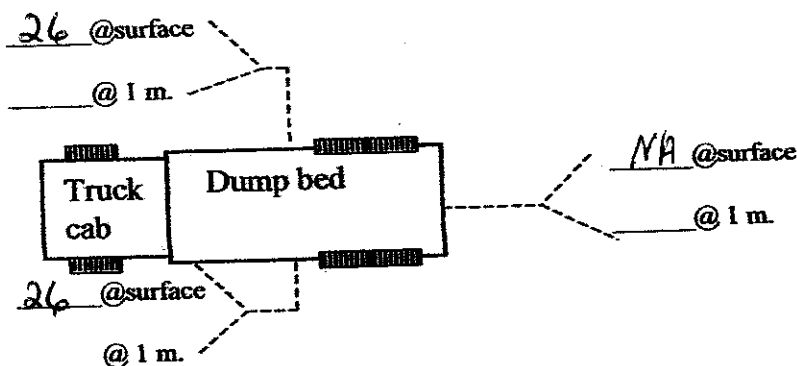
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|--------|
| Marquez 961 | 8/23/07 | 0935 | 0947 | 18 | 76,900 |
| Collazo 13 | | 0945 | 0953 | | 79,300 |
| Grieve 8 | | 0950 | 1000 | | 79,400 |
| Ruiz 95 | | 0955 | 1006 | | 75,700 |
| Grieve 12 | | 1000 | 1015 | | 82,900 |
| Grieve 24 | | 1010 | 1021 | | 39,900 |
| JD 01 | | 1015 | 1026 | | 49,400 |
| Grieve 23 | | 1020 | 1033 | | 83,500 |
| Marquez 96 | | 1040 | 1049 | | 80,400 |
| Murray 461 | | 1045 | 1056 | | 80,400 |
| JD 04 | | 1100 | 1110 | | 77,300 |
| Collazo 13 | | 1105 | 1118 | | 84,300 |
| Marquez 961 | | 1118 | 1126 | | 81,800 |
| Grieve 8 | | 1125 | 1133 | | 85,600 |
| Ruiz 95 | | 1130 | 1140 | | 84,700 |
| Grieve 12 | | 1135 | 1147 | | 87,200 |
| Grieve 24 | | 1145 | 1155 | | 87,000 |
| JD 01 | | 1150 | 1202 | | 83,700 |
| Grieve 23 | | 1200 | 1209 | | 87,700 |
| Marquez 96 | ✓ | 1205 | 1216 | ✓ | 84,000 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0723 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

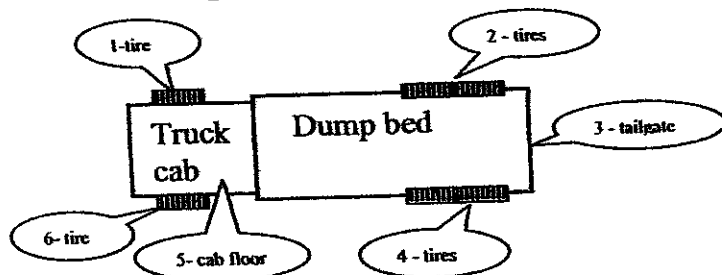
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

DOTHILL'S LANDFILL
 1900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------------|------------------|---------------------|
| SITE 01 | TICKET 586340 | GRID 0000 |
| WEIGHMASTER | | |
| 1500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 7:41 am |
| DATE OUT 23 August 2007 | | TIME OUT 7:41 am |
| VEHICLE YS11915 | | ROLL OFF |
| REFERENCE 0645051 | ORIGIN | |

Gross Weight 80,900.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 44,360.00 lb 22.18 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.18 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten signature]



NON-HAZARDOUS WASTE MANIFEST

0645051

Please print or type.

| | | | | | | | | |
|--|--|---|---|----------------------------|------|--------------------|----------------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 000003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | D-Drums | G-Gallons | |
| a. Norm Soil | | CC L67 070906 Y511915 | | 10 | Y | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| Steve Brinkman | | | | | | 08 | 23 | 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Chuck Foy | | 08 | 23 | 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| Chuck Messer | | | | | | 08 | 23 | 07 |

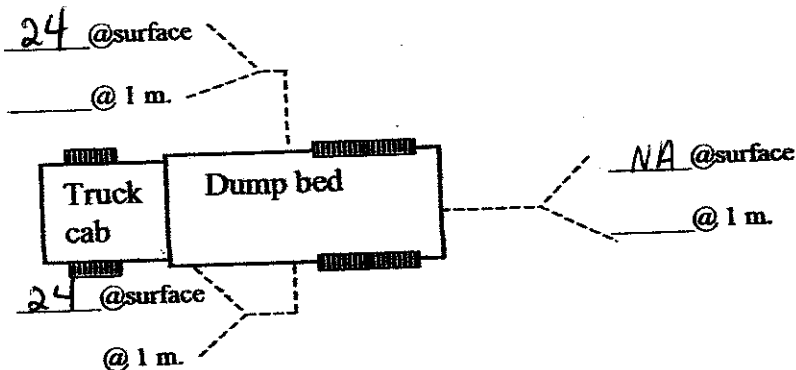
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0729 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

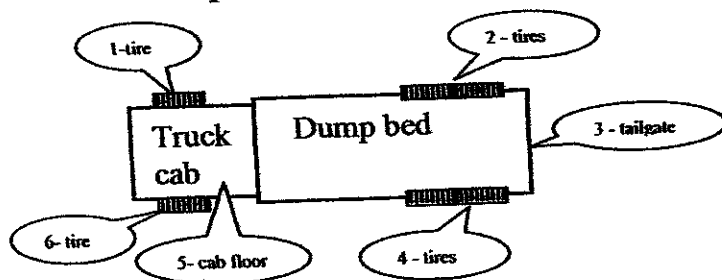
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y311915

| | | |
|------------------------------------|------------------|---------------------|
| SITE 11 | TICKET 586343 | GRID 0000 |
| WEIGHMASTER 500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 7:50 am |
| DATE OUT 23 August 2007 | | TIME OUT 7:50 am |
| VEHICLE Y311915 | | ROLL OFF |
| REFERENCE 0645050 | ORIGIN | |

Gross Weight 76,360.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 39,380.00 lb 19.69 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.69 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645050

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L67 070908 Y511915 | | Drums Gallons | |
| b. | | | | Yards Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month Day Year 8 13 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Manuel Ruiz | | | | Signature [Signature] Month Day Year 8 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Chuck Messer | | | | Signature [Signature] Month Day Year 08 23 07 | |

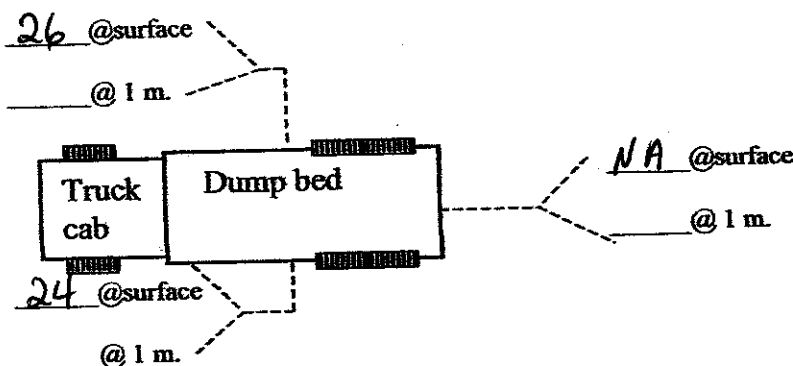
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0737 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

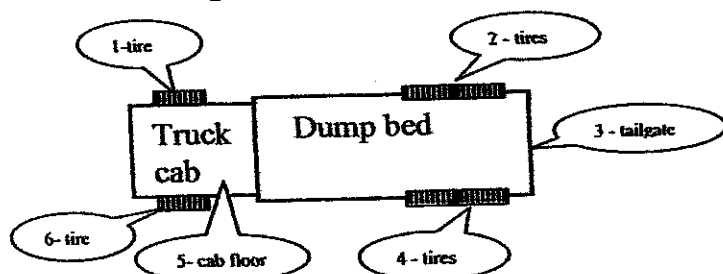
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 568348 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 7:55 AM | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 7:55 AM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0545041 | | |

Gross Weight 80,680.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 42,980.00 lb 21.49 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.49 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]

NON-HAZARDOUS WASTE MANIFEST

0645041

Please print or type

| | | | | | |
|--|--|---|--|---|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Gracie Trucking #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 90 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. | Type |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D Drums 0 Gallons Y-Yards 1-Tons | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bankman | | | | Signature [Signature] Month Day Year 12 23 07 | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 12 23 07 | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Barbara Wright | | | | Signature [Signature] Month Day Year 12 23 07 | |

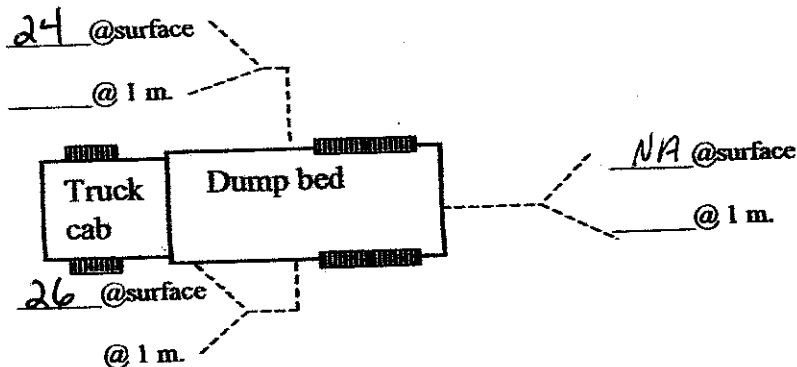
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0743 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

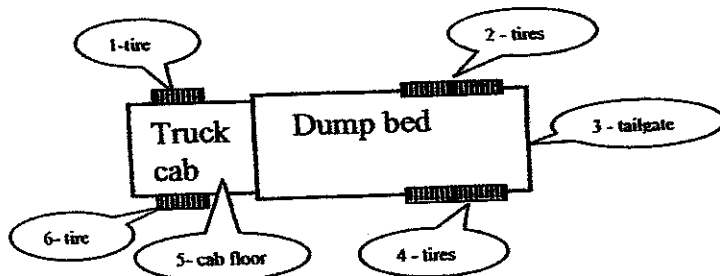
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 3900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 23-352 | GRID 0000 |
| WEIGHMASTER 2600056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 8:02 am |
| DATE OUT 23 August 2007 | | TIME OUT 9:02 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 54E042 | ORIGIN | |

Gross Weight 81,320.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 44,120.00 lb 23.00 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.00 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

KCAS



Please print or type.

| NON-HAZARDOUS WASTE MANIFEST | | | | | | | | | | |
|--|--|--|---|--|--------------|---|------|---------------------------|-----------------|---------|
| Please print or type | | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 1. Generator's US EPA ID Number | | | 3. Generator's Name and Mailing Address | | | 5. Generating Location (if different from School of Mines Research Institute) | | | | |
| | | | 1500 Illinois St. Golden, CO 80401 303-273-3550 | | | North West of 12th and Birch St. Golden, CO 80401 303-273-3600 | | | | |
| 4. Phone () | | | 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| | | | SDE Grieve Trucking | | | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | | 12. Transporter #2's Phone | | | | |
| | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address | | | 14. US EPA ID Number | | | 15. Facility's Phone | | | | |
| 6000 Hwy 90 Golden, CO 80401 (Contract School of Mines) | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| a. Normal Soil | | | CO L67 070508 Y511915 | | | No. | Type | Drums | Gal./Tons | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | | | Signature | | Month 8 | Day 23 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | | | Signature | | Month 08 | Day 23 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | | | Signature | | Month | Day | Year |

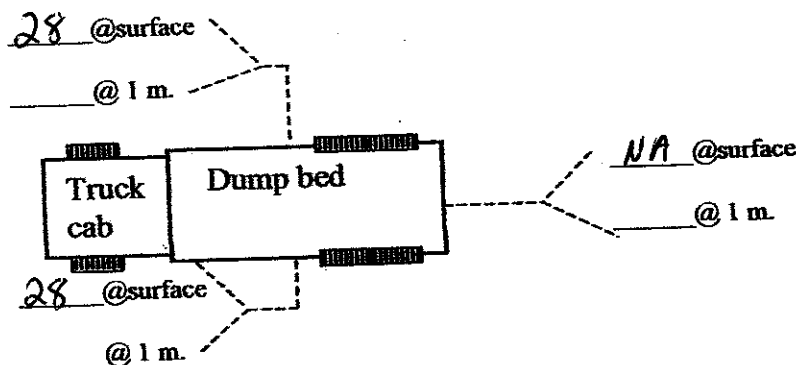
TRANSPORTER #1

COM00033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0749 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

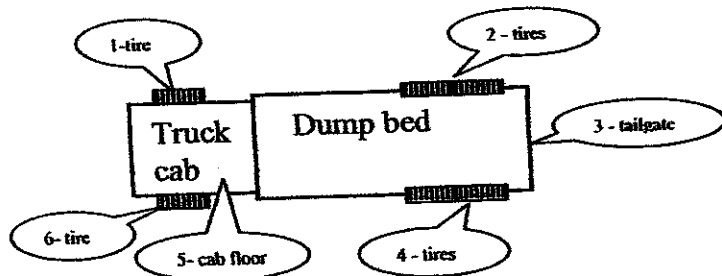
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586358 | GRID 0000 |
| WEIGHMASTER K500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 8:09 AM |
| DATE OUT 23 August 2007 | | TIME OUT 5:09 AM |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 545043 | ORIGIN | |

Gross Weight 78,020.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 42,440.00 lb 21.22 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.22 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645043

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 95 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18. Containers No. Type 18 Y | |
| b. | | | | 19. Total Quantity D Drums C Gallons Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

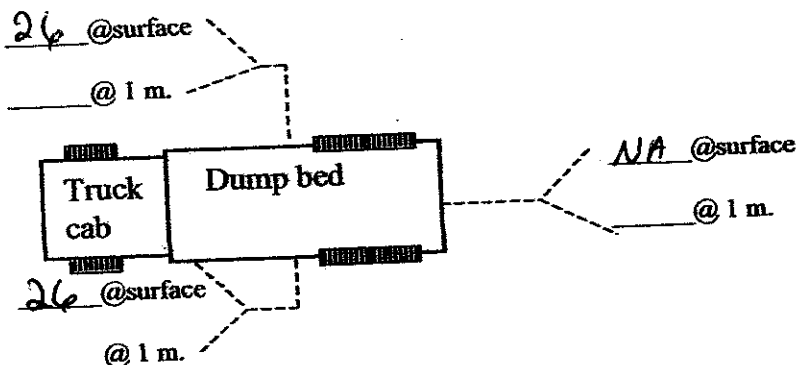
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0756 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

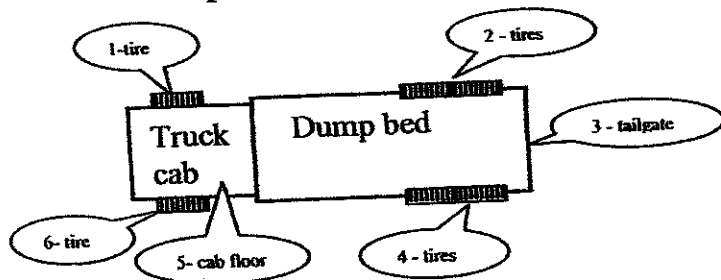
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006



NON-HAZARDOUS WASTE MANIFEST

0645044

Please print or type

| | | | | | | | |
|---|--|--|---|----------------------------|------|--------------------|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| | | | | No. | Type | 0 Drums | 0 Gallons |
| | | | | | 17 | Y-Yards | T-Tons |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Printed/Typed Name <u>Steve Brinkman</u> Signature <u>[Signature]</u> Month <u>8</u> Day <u>28</u> Year <u>07</u> | | | | | | | |
| TRANSPORTER | 24. Transporter #1: Acknowledgement of Receipt of Materials Printed/Typed Name <u>MARK PHELAN</u> Signature <u>[Signature]</u> Month <u>8</u> Day <u>23</u> Year <u>07</u> | | | | | | |
| | 25. Transporter #2: Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year | | | | | | |
| T/S/D FACILITY | 26. Discrepancy Indication Space | | | | | | |
| | 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) Printed/Typed Name Signature Month Day Year | | | | | | |

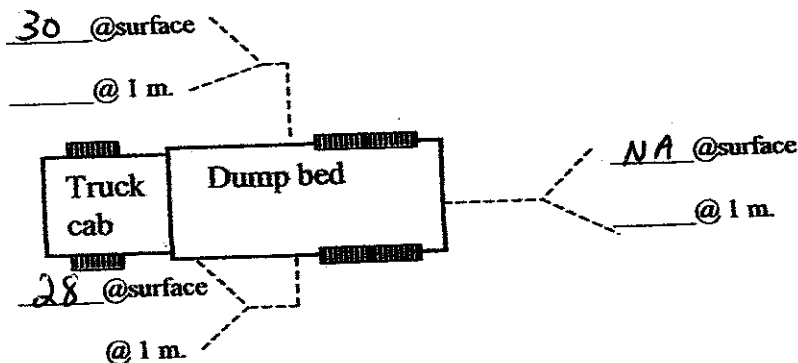
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0803 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griener Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

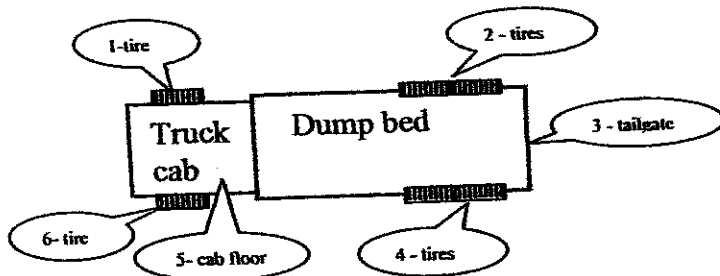
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

DOTHILL'S LANDFILL
 7000 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------------|------------------|---------------------|
| SITE 01 | TICKET 586375 | GRID 0000 |
| WEIGHMASTER | | |
| R500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 8:24 am |
| DATE OUT 23 August 2007 | | TIME OUT 9:34 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645045 | ORIGIN | |

Gross Weight 31,640.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 47,240.00 lb 23.62 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.62 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE A. M.



NON-HAZARDOUS WASTE MANIFEST

0645045

Please print or type.

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 860603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070008 Y511915 | | 19. Total Quantity D Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 12 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Armando [Signature] | | | | Signature [Signature] Month 12 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Armando [Signature] | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

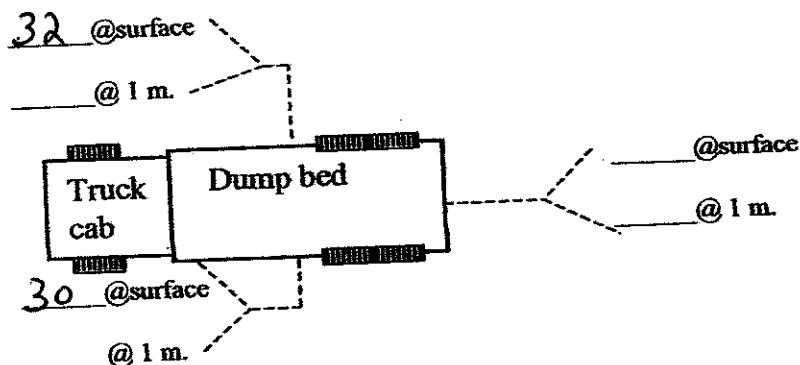
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0809 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

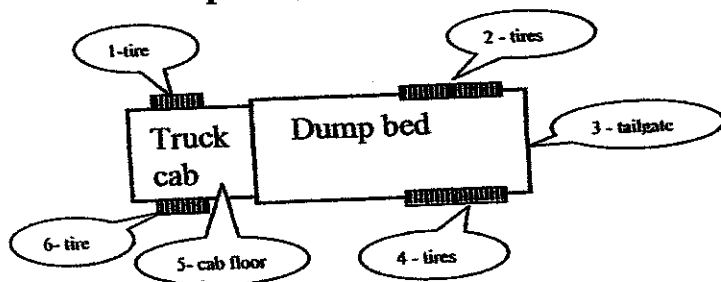
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 2700 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7511915

| | | | | | |
|----------------------|--|--------|--------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 284379 | | 0000 | |
| WEIGHMASTER | | | | | |
| 6000056 Barbara Jo S | | | | | |
| DATE IN | | | | TIME IN | |
| 23 August 2007 | | | | 8:30 am | |
| DATE OUT | | | | TIME OUT | |
| 23 August 2007 | | | | 3:30 am | |
| VEHICLE | | | | ROLL OFF | |
| 7511915 | | | | | |
| REFERENCE | | | ORIGIN | | |
| 645035 | | | | | |

Gross Weight 76,540.00 lb
 Tare Weight 36,500.00 lb
 Net Weight 39,960.00 lb 19.98 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.98 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____

NON-HAZARDOUS WASTE MANIFEST

0645035

Please print or type.

| | | | | | |
|--|--|---|--|--|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 880613 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. | Type |
| a. Norm Soil | | CO L67 070902 Y511915 | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 07 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Barra | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

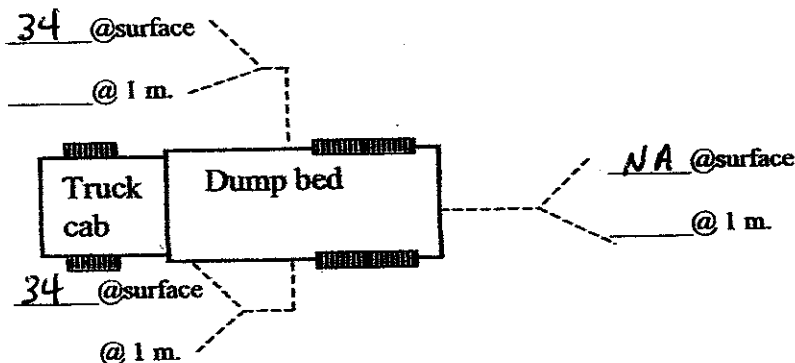
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0816 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

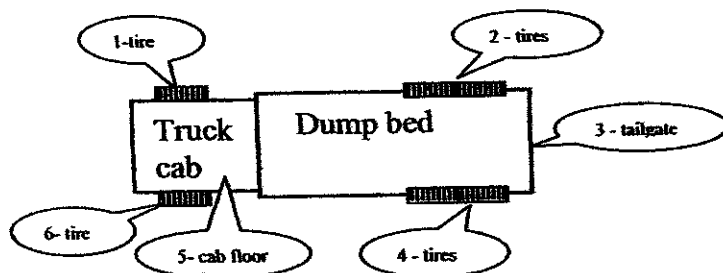
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586084 | 0000 |
| WEIGHMASTER | | |
| 0500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 8:37 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 8:37 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645034 | | |

Gross Weight 78,900.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 44,640.00 lb 22.32 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.32 | TN | SO-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LI | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE M. M.

NON-HAZARDOUS WASTE MANIFEST

0645034

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address F. Smith Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity D-Drums G-Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | | | 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

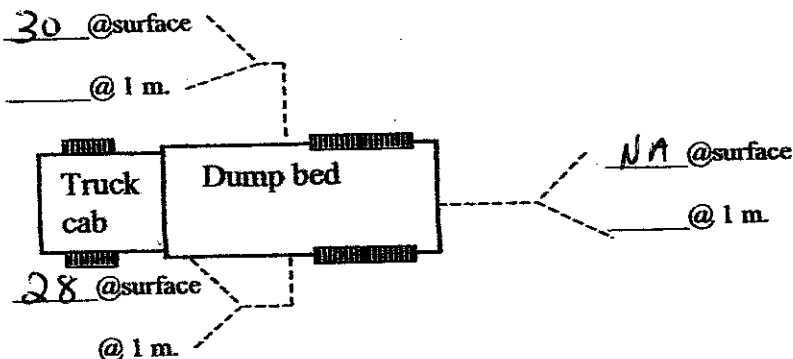
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0820 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

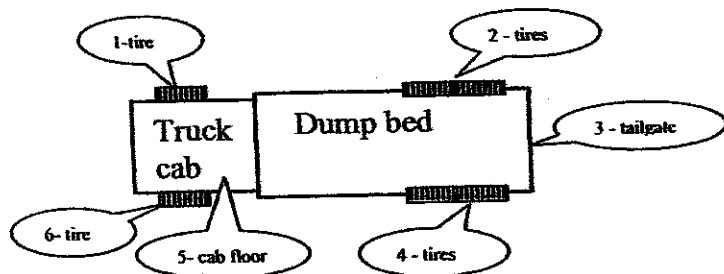
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLE LANDFILL
 2900 HIGHWAY 90
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|---------------------|--------------|
| SITE 01 | TICKET 552387 | GRID 0000 |
| WEIGHMASTER 2600056 Barbara Jo S | | |
| DATE IN 23 August 2007 | TIME IN 8:41 am | |
| DATE OUT 23 August 2007 | TIME OUT 8:41 am | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 645053 | ORIGIN | |

Gross Weight 74,920.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 39,280.00 lb 19.64 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.64 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

8-23-07

NON-HAZARDOUS WASTE MANIFEST

0645033

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960606 (Colorado School of Mines) | | 14. US EPA ID Number | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511016 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name SAHIL AGO VARGAS | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

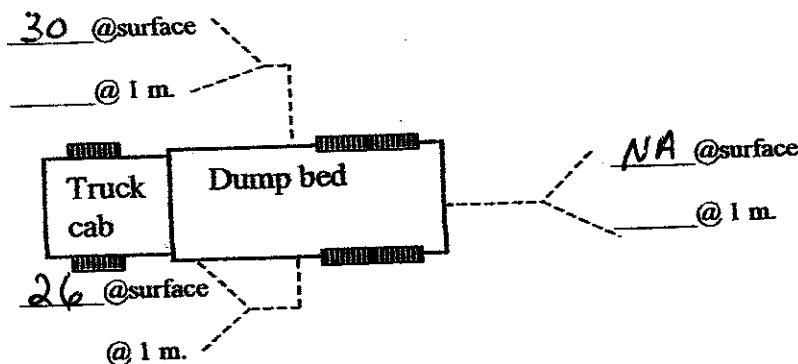
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0826 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

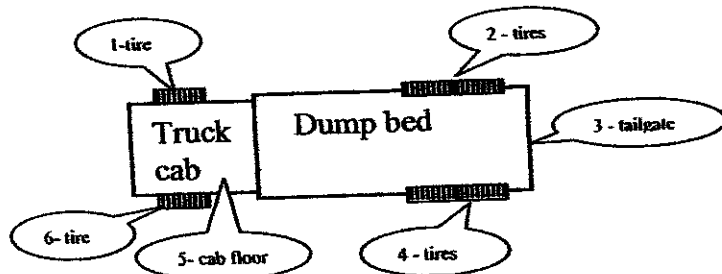
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

OOTHILL LANDFILL
 900 HIGHWAY 93
 OLDFEN
 ID
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586394 | 0000 |
| WEIGHMASTER | | |
| #000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 8:47 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 8:47 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 545032 | | |

Gross Weight 77,700.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 44,000.00 lb 22.00 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|--------------------|------|-----------|-----|-------|
| 22.00 | TN | 50-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LI | FUEL REDCOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645032

Please print or type.

| | | | | | |
|--|--|--------------------------|---|--|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 4900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| a. Norm Soil | | | CO 187 070906 7511945 | | 19. Total Quantity D-Drums 3 Gallons |
| b. | | | | | Y-Yards T-Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | Signature [Signature] | | Month Day Year 12/23/07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Colero Lopez | | | Signature [Signature] | | Month Day Year 12/23/07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

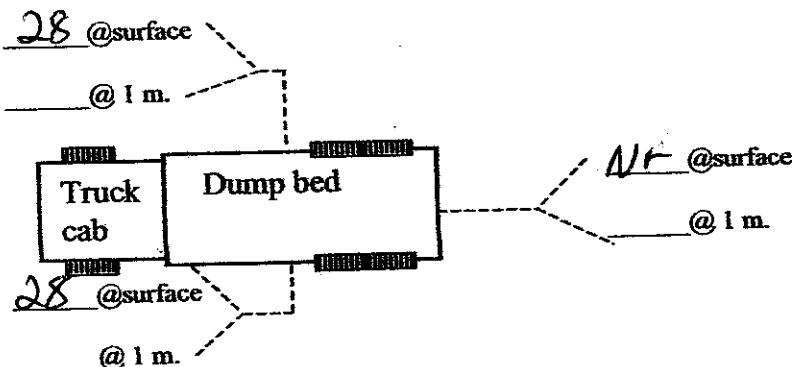
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0839 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

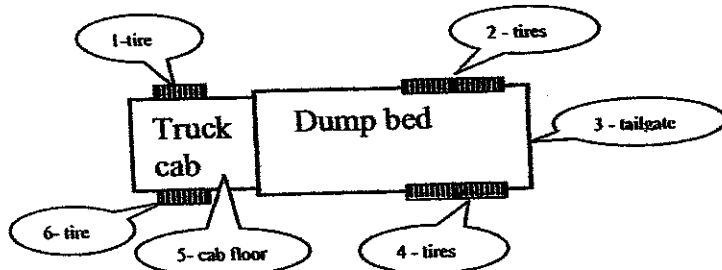
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
80401
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 588401 | 0000 |
| WEIGHMASTER | | |
| 2500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 8:56 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 8:56 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645031 | | |

Gross Weight 78,850.00 lb
Tare Weight 36,540.00 lb
Net Weight 42,340.00 lb 21.17 TN

Inbound

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

NON-HAZARDOUS WASTE MANIFEST

0645031

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums 0 Gallons Y-Yards 184 T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Fay | | Signature | | Month Day Year 08 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

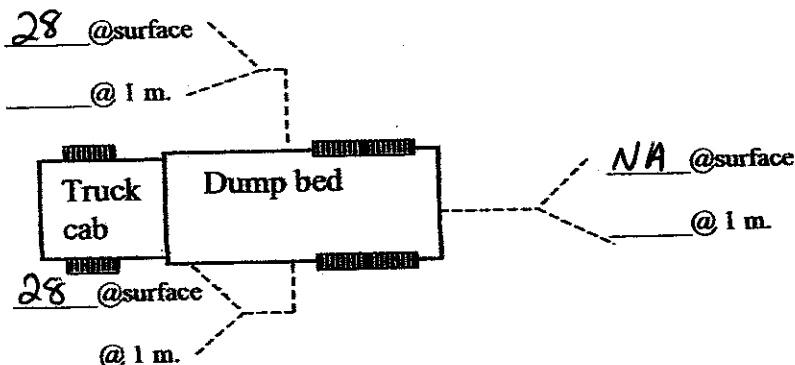
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0844 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

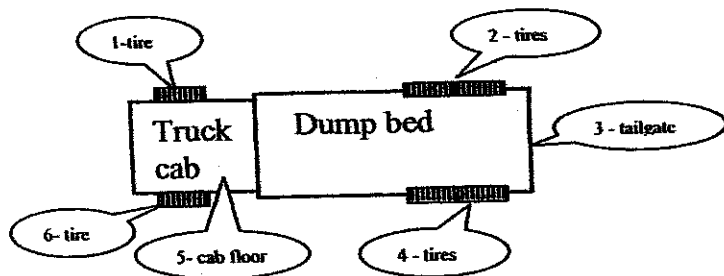
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 286405 | GRID 0000 |
| WEIGHMASTER BSC0056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 9:05 am |
| DATE OUT 23 August 2007 | | TIME OUT 9:05 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643030 | ORIGIN | |

Gross Weight 76,200.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 39,220.00 lb 15.61 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 15.61 | TN | SW-CONT SCIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

NON-HAZARDOUS WASTE MANIFEST

0645030

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 993803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 0-Drums 0-Gallons | |
| b. | | | | Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Michael R... | | Signature | | Month Day Year 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

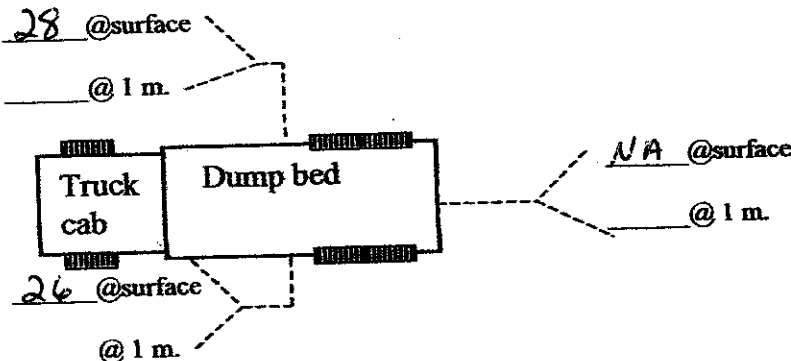
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0850 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

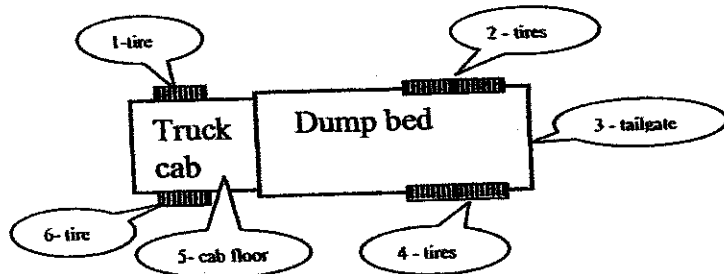
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

FOOTHILLS LANDFILL
8700 HIGHWAY 53
GOLDEN
CO
806008
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

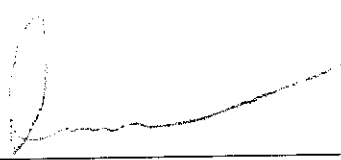
Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586408 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 7:11 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 7:11 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645029 | | |

Gross Weight 80,440.00 lb
Tare Weight 37,700.00 lb Inbound -
Net Weight 42,740.00 lb 21.37 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

NON-HAZARDOUS WASTE MANIFEST

0645029

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | |
|--|------|---|---|---|--|-----|------|--------------------|----------|----|--|---------|-----------|--|--|---------|-------|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | | | | | | | | | | | | | |
| 4. Phone () 303-273-3996 | | 6. Phone () | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name Greene Trucking #10. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | |
| a. Norm Soil | | CC L67 070908 Y511915 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit</th> </tr> <tr> <td>18</td> <td></td> <td>0 Drums</td> <td>0 Gallons</td> </tr> <tr> <td></td> <td></td> <td>Y-Yards</td> <td>-Tons</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit | 18 | | 0 Drums | 0 Gallons | | | Y-Yards | -Tons |
| No. | Type | 19. Total Quantity | 20. Unit | | | | | | | | | | | | | | |
| 18 | | 0 Drums | 0 Gallons | | | | | | | | | | | | | | |
| | | Y-Yards | -Tons | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8/23/07 | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8/23/07 | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |

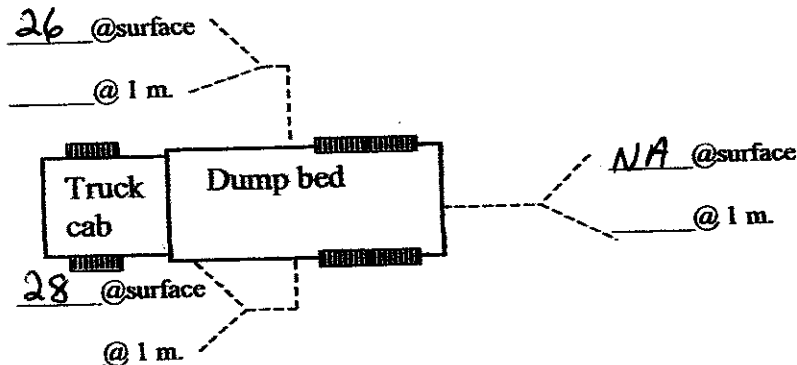
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0856 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

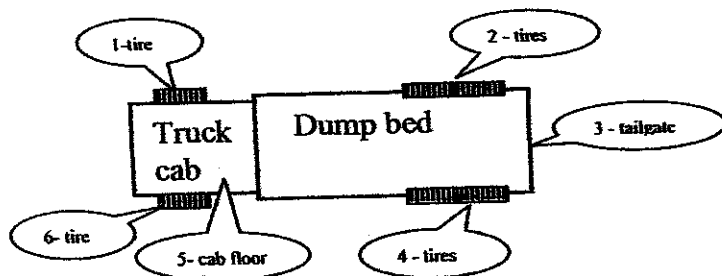
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
3900 HIGHWAY 93
GOLDEN
CO
800603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|---------------------|--------------|
| SITE 01 | TICKET 586412 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | TIME IN 9:16 am | |
| DATE OUT 23 August 2007 | TIME OUT 9:16 am | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 0645028 | ORIGIN | |

Gross Weight 58,060.00 lb
Tare Weight 37,200.00 lb
Net Weight 20,860.00 lb 10.43 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 10.43 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

KENS

NON-HAZARDOUS WASTE MANIFEST

0645028

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|---|--|--|-----|------|-------------------------------|---------------------------------|----|---|---------|--------|----|--|--|--|----|--|--|--|----|--|--|--|
| 3. Generator Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name Joe Grievette Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Poudre Canyon 6900 Hwy 90 Golden, CO ACCOUNT # 160678 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | |
| a. Worm Soil | | CO 127 070001 Y511015 | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity D-Drums</th> <th>20. Unit Wt/Vol G-Gallons</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>Y</td> <td>Y-Yards</td> <td>T-Tons</td> </tr> <tr> <td>b.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G-Gallons | 18 | Y | Y-Yards | T-Tons | b. | | | | c. | | | | d. | | | |
| No. | Type | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G-Gallons | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Y | Y-Yards | T-Tons | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature <i>[Signature]</i> | | Month Day Year 08 23 07 | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | Signature <i>[Signature]</i> | | Month Day Year 08 23 07 | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | |

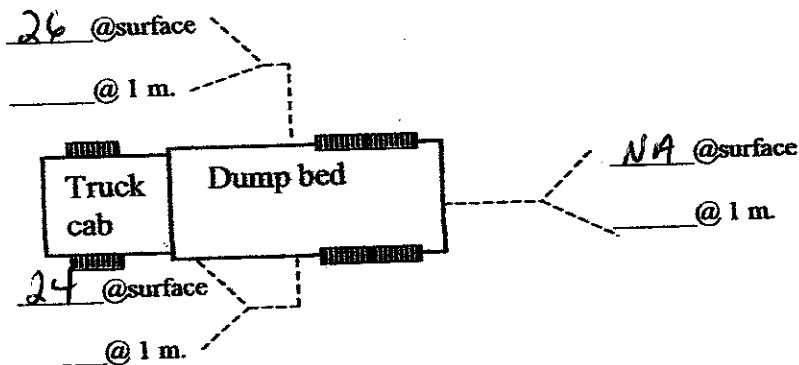
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0902 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griene Truck license plate no. /state: JD01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

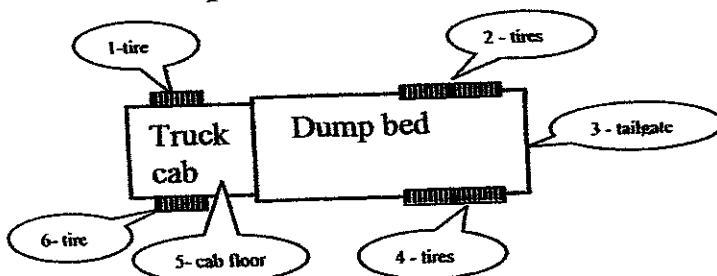
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401
 Contract: YS11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 5844-17 | 0000 |
| WEIGHMASTER | | |
| 8500036 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 9:25 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 9:25 am | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 0645027 | | |

Gross Weight 78,800.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 43,220.00 lb 21.61 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.61 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten signature]

NON-HAZARDOUS WASTE MANIFEST

0645027

Please print or type.

| | | | | | |
|--|--|--------------------------|--|---|-------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960903 (Colorado School of Mines) | | 14. US EPA ID Number | | 17. Allied Waste Approval # and Exp. Date | |
| 16. Waste Shipping Name and Description | | 18. Containers | | 19. Total Quantity | 20. Unit |
| a. Norm Soil | | CC L67 070908 Y511915 | | 18 Yards | 1-Tons |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | Month Day Year 8/23/07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jose W Ruiz | | | | Signature | Month Day Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Chuck Messer | | | | Signature | Month Day Year 09/23/07 |

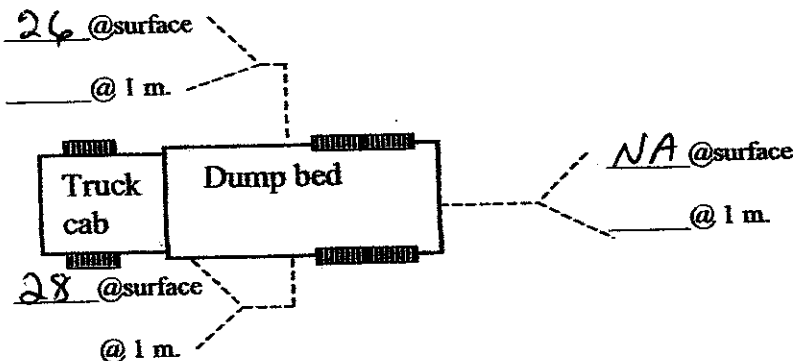
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0905 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

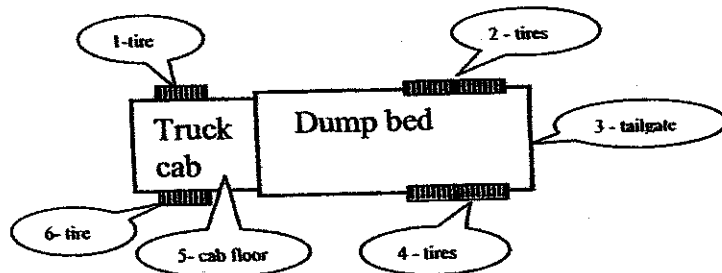
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA 43.5 | 43.5 | 569.6 | |

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 980603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|-----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586423 | | 0000 | |
| WEIGHMASTER | | | | | |
| R4500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 23 August 2007 | | | 9:36 am | | |
| DATE OUT | | | TIME OUT | | |
| 23 August 2007 | | | 9:36 am | | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0645026 | | | | | |

Gross Weight 79,280.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 44,180.00 lb 22.09 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.09 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Signature]

NON-HAZARDOUS WASTE MANIFEST

0645026

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8800 Hwy 23 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L67 070908 Y511915 | | D-Drums G-Gallons | |
| b. | | | | Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Phelan | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

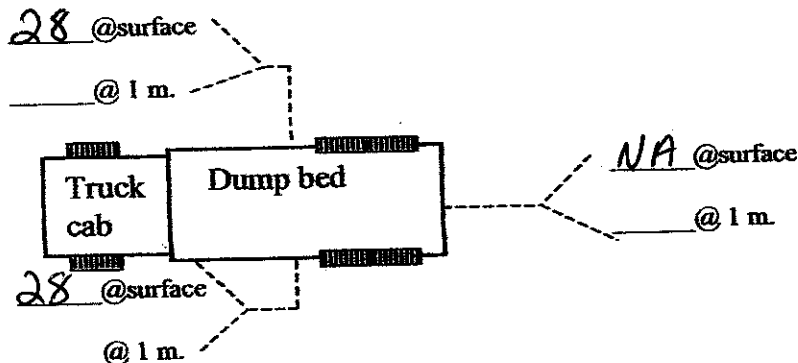
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0924 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

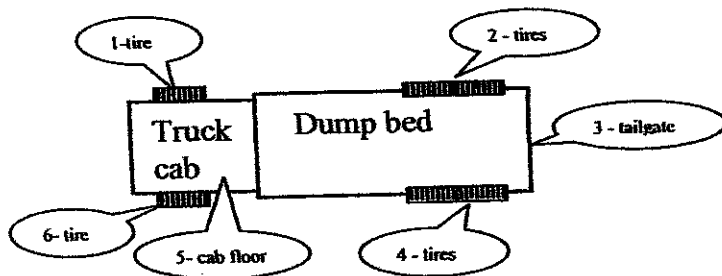
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 526434 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 9:51 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 9:51 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0645025 | | |

00 Gross Weight 74,680.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 38,100.00 lb 19.05 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

NON-HAZARDOUS WASTE MANIFEST

0645025

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 90 Golden, CO ACCOUNT # 990603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month Day Year 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Luna | | | | Signature [Signature] Month Day Year 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

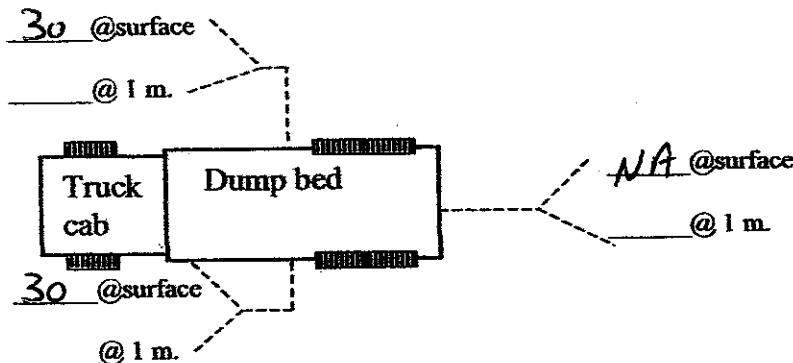
TRANSPORTER #2

COM009033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0934 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

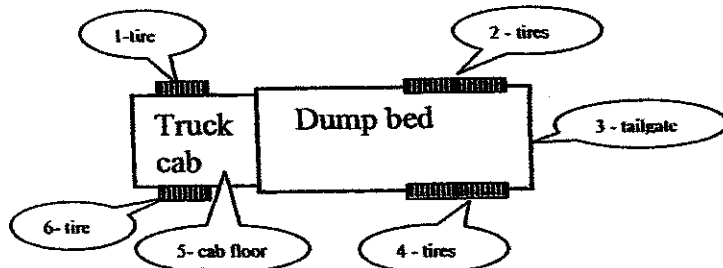
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 586438 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 23 August 2007 | | 10:00 am |
| DATE OUT | | TIME OUT |
| 23 August 2007 | | 10:00 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0645024 | | |

Gross Weight 77,360.00 lb
 Tare Weight 34,620.00 lb
 Net Weight 42,740.00 lb 21.37 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

Mh M

NON-HAZARDOUS WASTE MANIFEST

0645024

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Pottville Landfill 8900 Hwy 89 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 Y Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | | | 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Meyer | | | | 08/23/07 | |

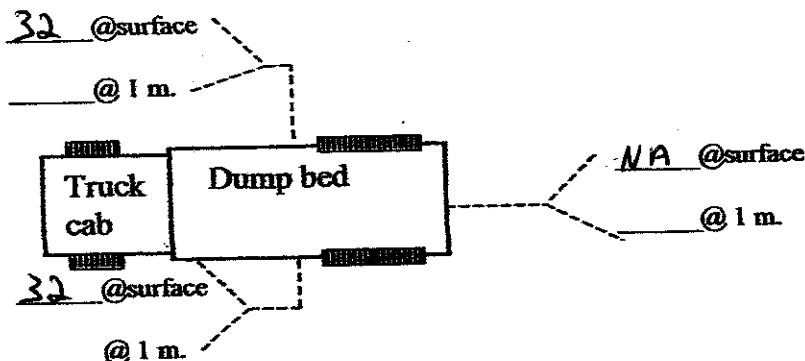
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0940 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

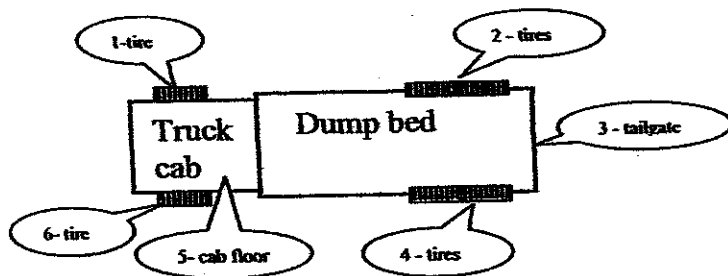
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 3900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 586443 | GRID 0000 |
| WEIGHMASTER BS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 10:10 am |
| DATE OUT 23 August 2007 | | TIME OUT 10:10 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645023 | ORIGIN | |

Gross Weight 73,760.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 38,120.00 lb 19.06 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature] 8-23-07

NON-HAZARDOUS WASTE MANIFEST

0645023

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 90 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | 00 L67 070900 Y511915 | | 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sanfer V01995 | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

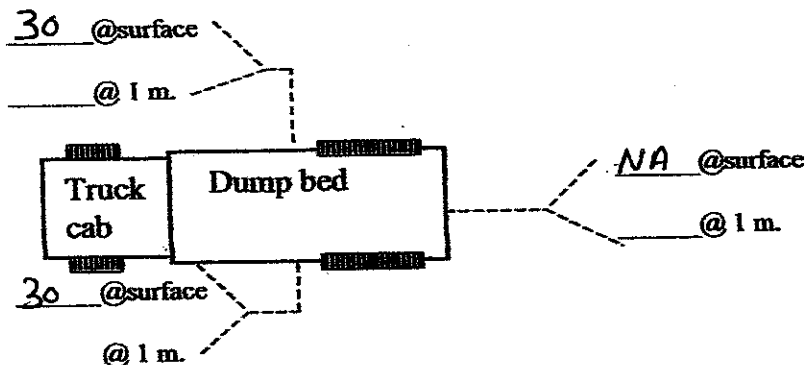
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0947 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

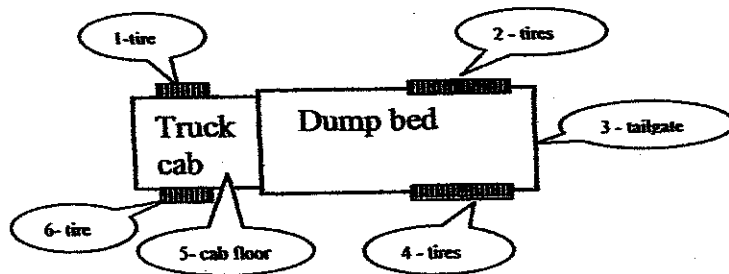
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 3700 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|----------------------|--------------|
| SITE 01 | TICKET 526452 | GRID 0000 |
| WEIGHMASTER 3500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | TIME IN 10:18 am | |
| DATE OUT 23 August 2007 | TIME OUT 10:18 am | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 645022 | ORIGIN | |

Gross Weight 76,900.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 42,500.00 lb 21.25 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.25 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

A. A.

NON-HAZARDOUS WASTE MANIFEST

0645022

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden CO ACCOUNT # 99000 (Colorado School of Mines) | | 14. US EPA ID Number | | 16. Waste Shipping Name and Description | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit Wt/Vol G-Gallons T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 07 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Armando Marquez | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

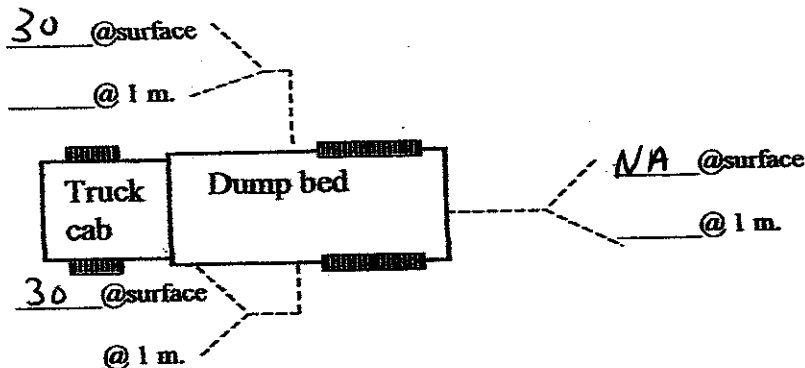
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 0953 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griener Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

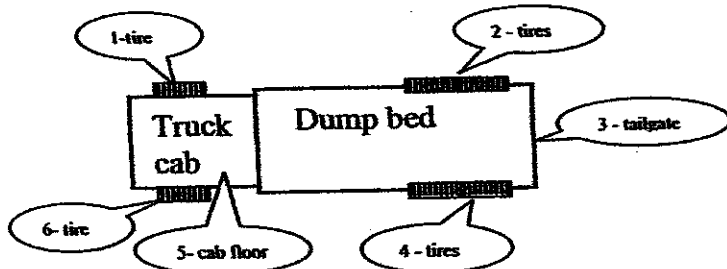
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586455 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 10:21 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 10:21 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645021 | | |

Contract: Y511915

Gross Weight 79,280.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 43,580.00 lb 21.79 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.79 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645021

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990603 (Colorado School of Mines) | | 14. US EPA ID Number | | 16. Waste Shipping Name and Description | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 18 Day 07 Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name Rafael Collazo Lopez | | | | Signature [Signature] 08/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name | | | | Signature | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |

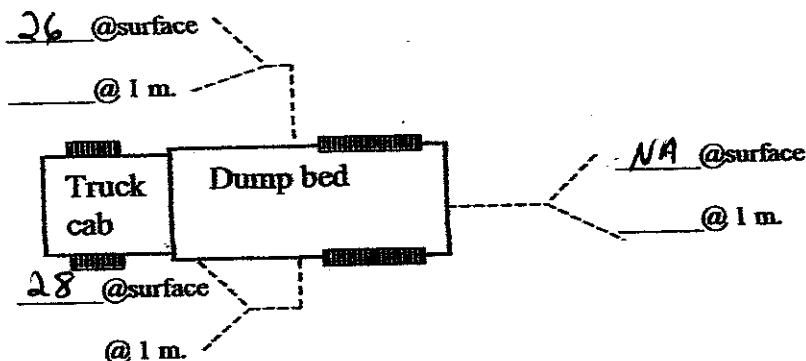
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1000 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

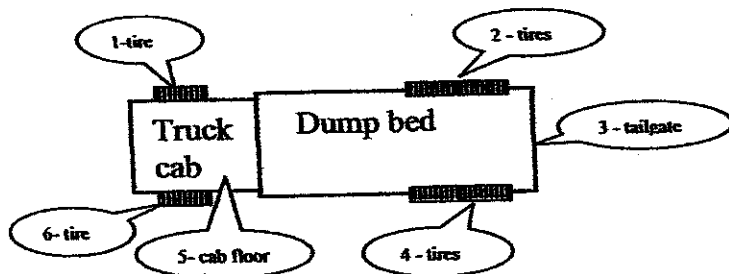
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

COTHILLS LANDFILL
 1700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|-----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 386460 | 0000 |
| WEIGHMASTER | | |
| BS000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 10:25 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 10:25 am | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 645020 | | |

Gross Weight 79,440.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 42,900.00 lb 21.45 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.45 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

NON-HAZARDOUS WASTE MANIFEST

0645020

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden CO 80401 303-273-3000 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden CO 80401 ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity D-Drums G-Gallons | |
| a. Storm Soil | | 00 L67 070000 Y511915 | | 18 Y 7-Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Branner | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month 08 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

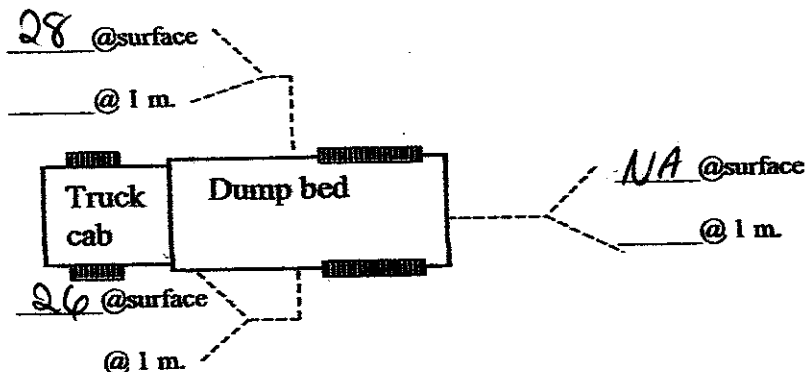
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1006 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griene Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

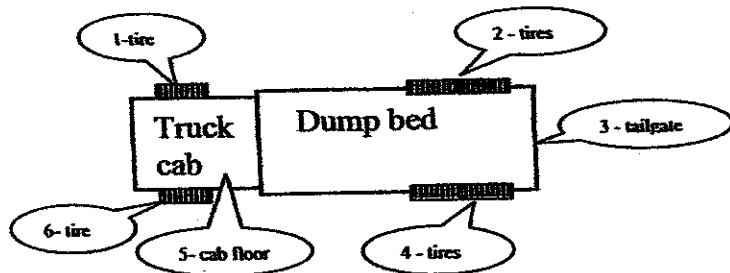
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586464 | 0000 |
| WEIGHMASTER | | |
| R600056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 10:28 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 10:28 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645019 | | |

Gross Weight 75,660.00 lb
 Tare Weight 36,980.00 lb Inbound --
 Net Weight 38,680.00 lb 19.34 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.34 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____

NON-HAZARDOUS WASTE MANIFEST

0645019

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3996 | | |
| 4. Phone () 303-273-3996 | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 90 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L07 070900 Y511915 | | 19. Total Quantity D-Drums 0 Gallons | |
| b. | | | | 20. Unit Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brakman | | Signature | | Month Day Year 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mark Ruiz | | Signature | | Month Day Year 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

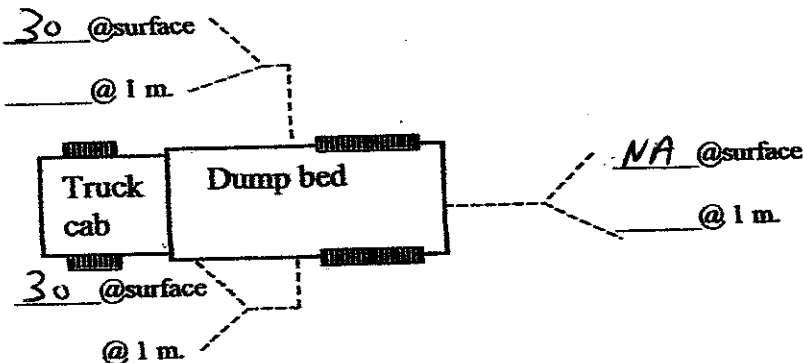
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1015 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

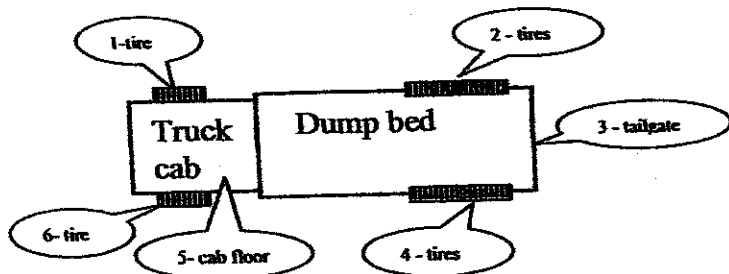
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

MOUNTAIN LANDFILL
 1900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586467 | 0000 |
| WEIGHMASTER | | |
| 1600056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 10:32 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 10:32 am | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| | | |

Gross Weight 82,860.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 45,160.00 lb 22.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645016

Please print or type.

| | | | | | |
|--|--|--------------------------|--|--|------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Gravel Trucking #12 | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Summit Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | 14. US EPA ID Number | | 17. Allied Waste Approval # and Exp. Date | |
| 16. Waste Shipping Name and Description | | 18. Containers | | 19. Total Quantity | 20. Unit |
| a. Norm Soil | | CO L67 970908 Y911915 | | 0 Drums | 0 Gallons |
| b. | | | | Y-Yards | T-Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | Month Day Year 8 1 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | Month Day Year 8 23 07 |
| Printed/Typed Name Alan Olson | | | | Signature | Month Day Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | Month Day Year |
| Printed/Typed Name | | | | Signature | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Chuck Mpsier | | | | Signature | Month Day Year 8 23 07 |

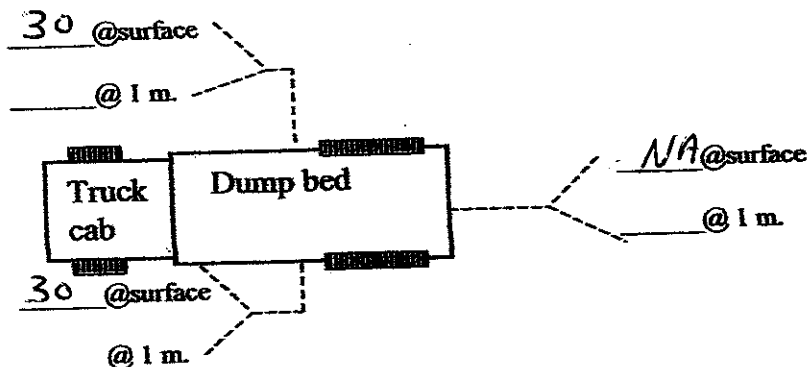
TRANSPORTER #2

COM000093

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1021 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

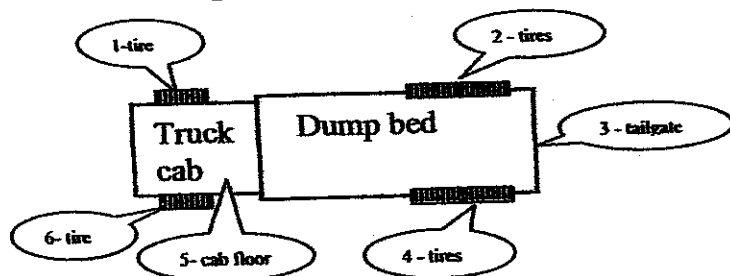
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 3900 HIGHWAY 93
 GOLDEN
 CO
 80606
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------------|----------------------|--------------|
| SITE 01 | TICKET 566478 | GRID 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | TIME IN 10:47 am | |
| DATE OUT 23 August 2007 | TIME OUT 10:47 am | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 0645018 | ORIGIN | |

00 Gross Weight 39,980.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 2,780.00 lb 1.39 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|------|------|-------------------|------|-----------|-----|-------|
| 1.39 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

Kell

NON-HAZARDOUS WASTE MANIFEST

0645018

Please print or type

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Problems Exposed 3900 Hwy 33 Golden, CO ACCOUNT # 10000 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date CO 107 070808 YS11915 | | 18. Containers No. Type 18 Y | |
| 16. Waste Shipping Name and Description a. Harm Soil | | 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons Y-Yards | | 20. Unit Wt/Vol G-Gallons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8/23/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year 8/23/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Chuck Messer | | Signature | | Month Day Year | |

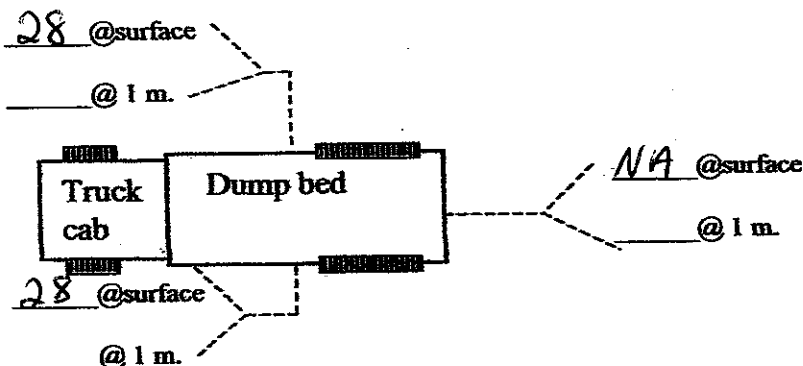
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1026 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

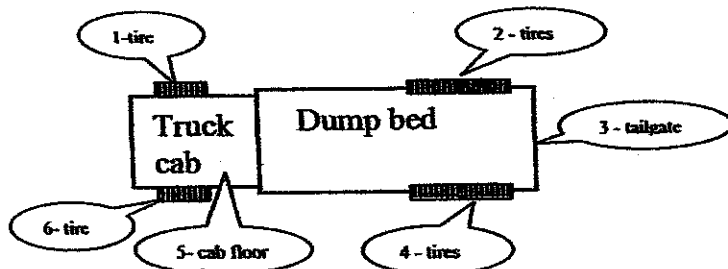
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | E24481 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 23 August 2007 | | | 10:50 am | | |
| DATE OUT | | | TIME OUT | | |
| 23 August 2007 | | | 10:50 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 0645017 | | | | | |

00 Gross Weight 49,420.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 13,840.00 lb 6.92 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|------|------|-------------------|------|-----------|-----|-------|
| 6.92 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature] 8 21 07

NON-HAZARDOUS WASTE MANIFEST

0645017

Please print or type.

| | | | | | |
|--|--|--------------------------|------|---|-----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 16. Waste Shipping Name and Description | |
| 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| | | No. | Type | D Drums | G Gallons |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 | Y-Yards |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month | Day |
| Steve Brinkman | | | | 8 | 23 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month | Day |
| Printed/Typed Name | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month | Day |
| Printed/Typed Name | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month | Day |
| Chuck Messer | | | | 8 | 23 |

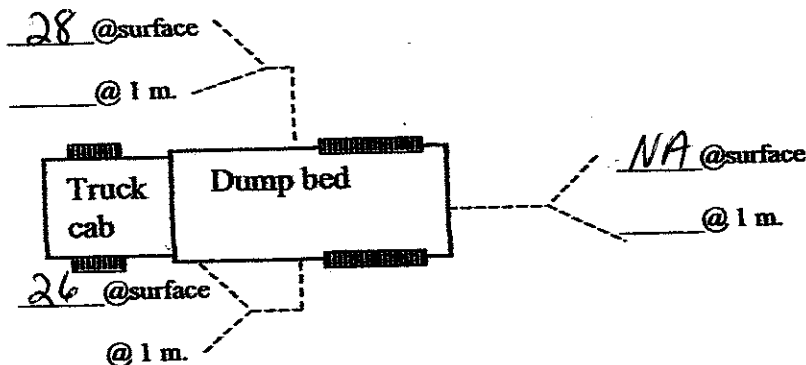
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1033 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

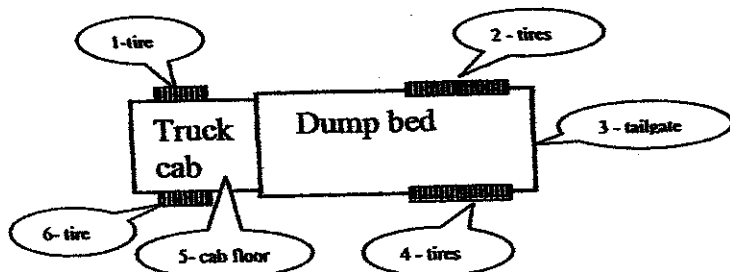
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586424 | 0000 |
| WEIGHMASTER | | |
| 0300056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 10:54 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 10:54 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 0645015 | | |

00 Gross Weight 83,540.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 48,440.00 lb 24.22 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.22 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645015

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 99 Golden, CO ACCOUNT # 960003 (Colorado School of Mines) | | 14. US EPA ID Number | | 16. Waste Shipping Name and Description | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Nonm Soil | | CO L67 070908 Y611915 | | 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Chuck Meser | | | | Signature [Signature] Month 07 Day 23 Year 07 | |

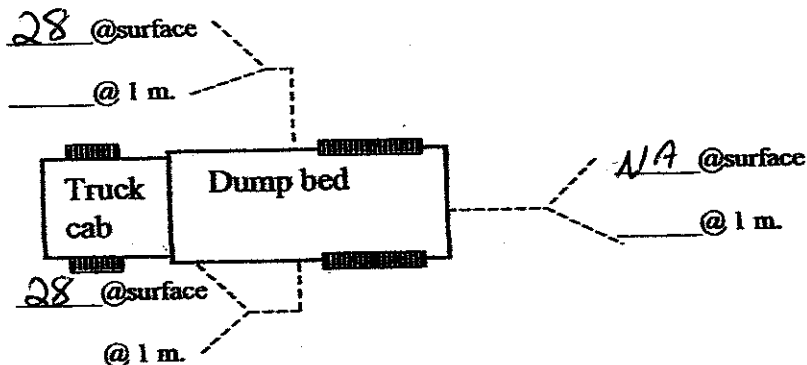
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1049 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

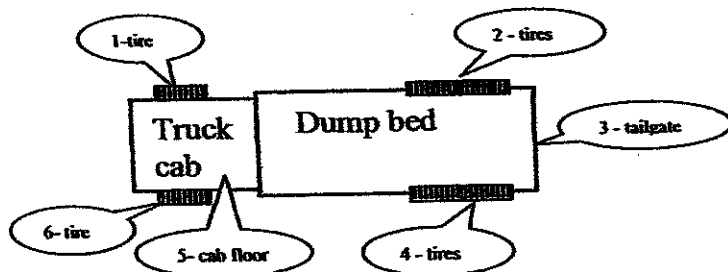
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 3900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556491 | 0000 |
| WEIGHMASTER | | |
| B500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 11:06 am | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 11:06 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645014 | | |

00 Gross Weight 80,400.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 43,820.00 lb 21.91 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.91 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____

NON-HAZARDOUS WASTE MANIFEST

0645014

Please print or type.

| | | | | | |
|--|--|--------------------------|--|---|------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960613 (Colorado School of Mines) | | 14. US EPA ID Number | | 17. Allied Waste Approval # and Exp. Date | |
| 16. Waste Shipping Name and Description | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol |
| a. Non Soil | | CO L67 070908 Y511915 | | D-Drums | G-Gallons |
| b. | | | | Y-Yards | T-Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bankman | | | | Signature | Month Day Year 8/23/97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Month Day Year 8/23/97 | |
| Printed/Typed Name Fernando Lora | | | | Signature | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Month Day Year | |
| Printed/Typed Name | | | | Signature | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | Month Day Year |

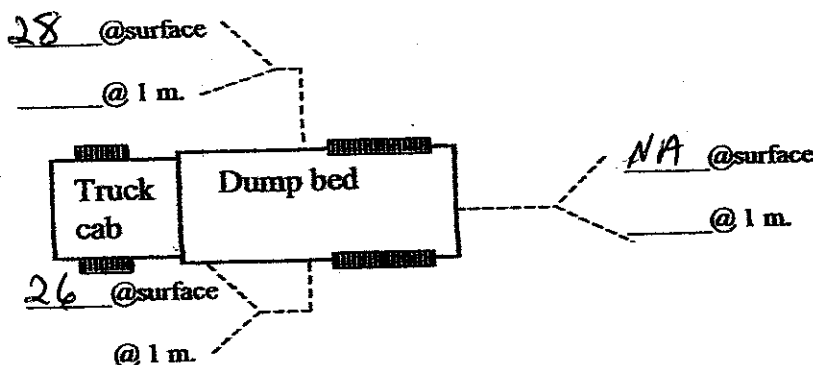
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1056 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

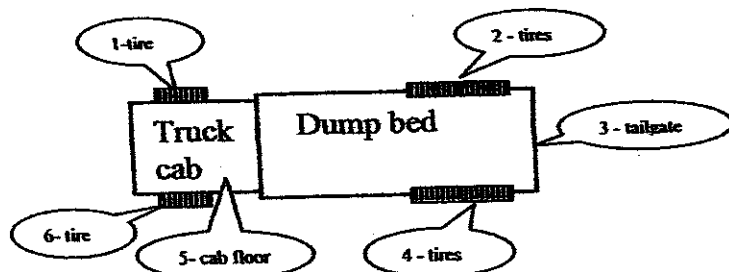
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | < 2200 | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 585500 | 0000 |
| WEIGHMASTER | | |
| K500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 23 August 2007 | | 11:19 am |
| DATE OUT | | TIME OUT |
| 23 August 2007 | | 11:19 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645013 | | |

Gross Weight 80,360.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 46,100.00 lb 23.05 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645013

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footbills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L67 070908 Y511915 | | D-Drums 3 Gallons | |
| b. | | | | Y-Yards 1-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | | | 8 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

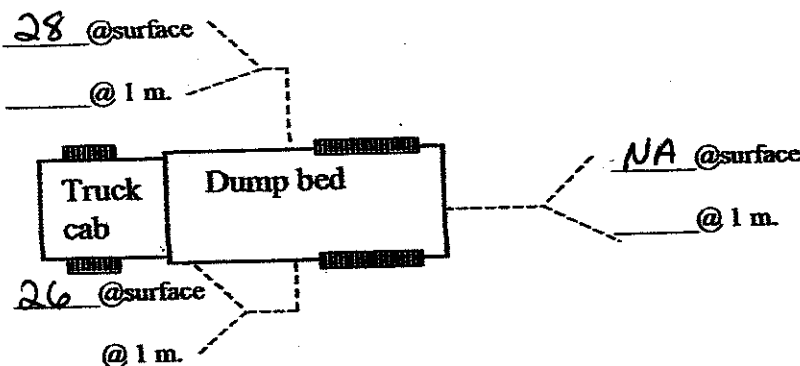
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1110 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

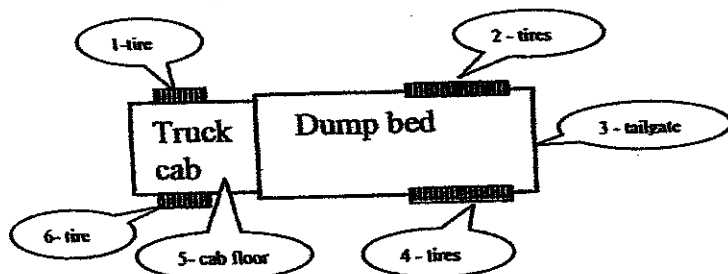
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

00000000

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 586508 | 0000 |
| WEIGHMASTER | | |
| IS00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 23 August 2007 | | 11:29 am |
| DATE OUT | | TIME OUT |
| 23 August 2007 | | 11:29 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645012 | | |

Contract: Y511915


Gross Weight 77,340.00 lb
Tare Weight 35,640.00 lb
Net Weight 41,700.00 lb 20.85 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.85 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE  8-23-07

NON-HAZARDOUS WASTE MANIFEST

0645012

Please print or type

| | | | | | |
|---|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO ACCOUNT # 900803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | D-Drums | |
| | | | | G-Gallons | |
| a. Norm Soil | | CO 167 070908 Y511915 | | Y-Yards | |
| b. | | | | T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 23 27 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santoso Vargas | | | | Signature [Signature] | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

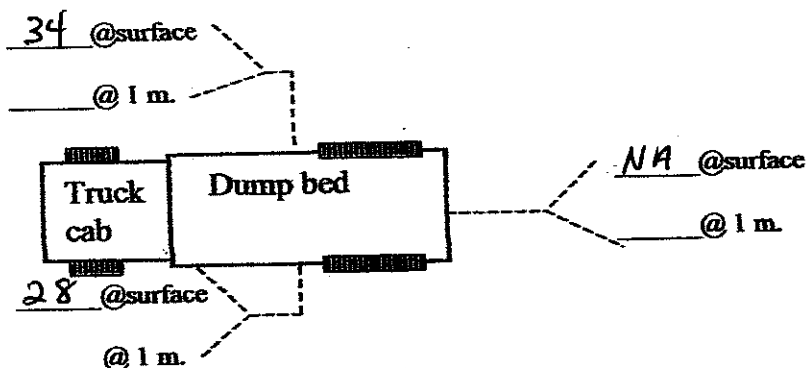
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1118 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

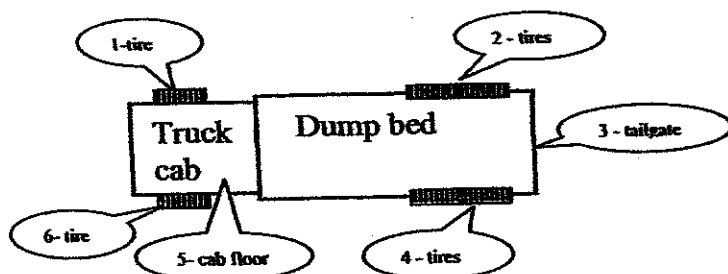
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 584517 | 0000 |
| WEIGHMASTER | | |
| E500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 23 August 2007 | | 11:40 am |
| DATE OUT | | TIME OUT |
| 23 August 2007 | | 11:40 am |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645011 | | |

Gross Weight 84,280.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 48,580.00 lb 24.29 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.29 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645011

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 000003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity D-Drums G-Gallons | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 No. Type Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Miguel Collazo Lopez | | | | 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

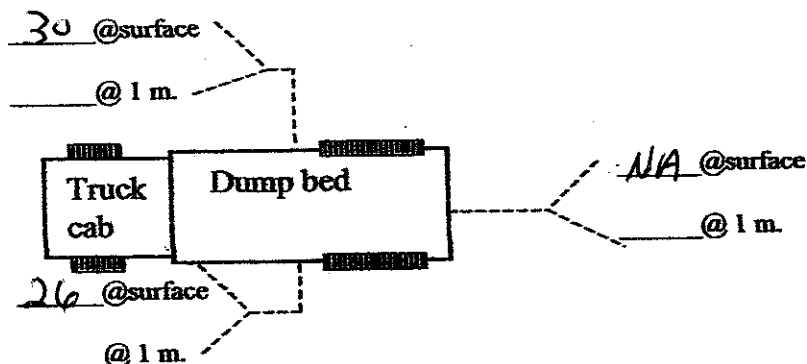
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1126 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

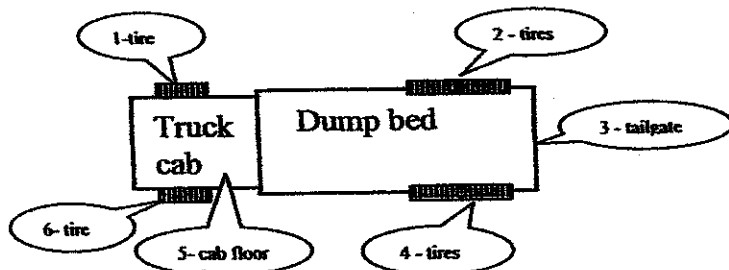
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

SIGNATURE

NON-HAZARDOUS WASTE MANIFEST

0645010

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | D-Drums | |
| | | | | G-Gallons | |
| a. Norm Soil | | CO L67 070008 1511915 | | Y-Yards | |
| b. | | | | T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Amanda [Signature] | | | | Signature [Signature] | |
| | | | | Month Day Year 8 1 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

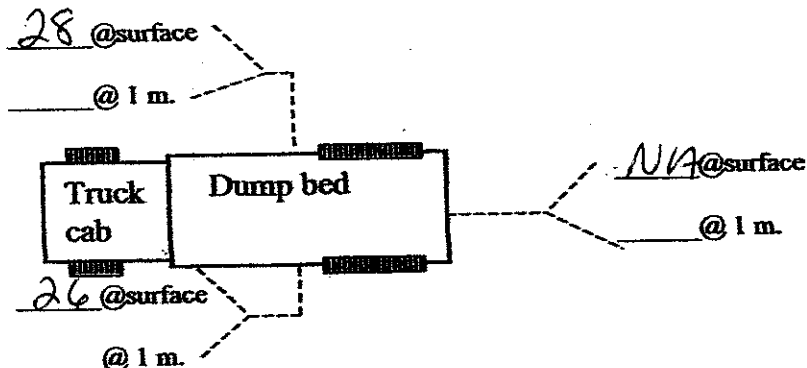
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1133 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

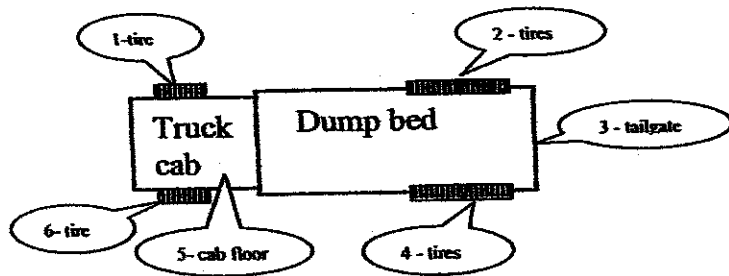
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

DOOTHILLS LANDFILL
 1900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------------|----------------------|--------------|
| SITE 01 | TICKET 584527 | GRID 0000 |
| WEIGHMASTER | | |
| ES00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | TIME IN 11:50 am | |
| DATE OUT 23 August 2007 | TIME OUT 11:50 am | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 645009 | ORIGIN | |

Gross Weight 83,560.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 49,040.00 lb 24.52 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.52 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



ALLIED WASTE

SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645009

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | 21. Additional Descriptions for Materials Listed Above | |
| | | | | 22. Special Handling Instructions and Additional Information | |
| | | | | 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | Signature | | Month Day Year | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

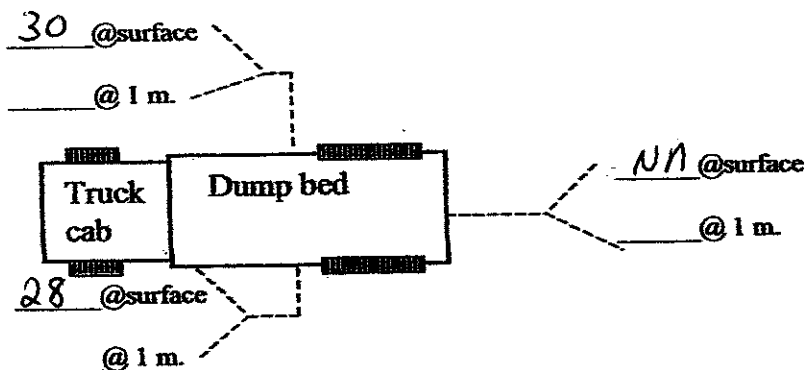
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1140 Surveyed by: J Mattson / C Hicks
 Trucking Company: Griev Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

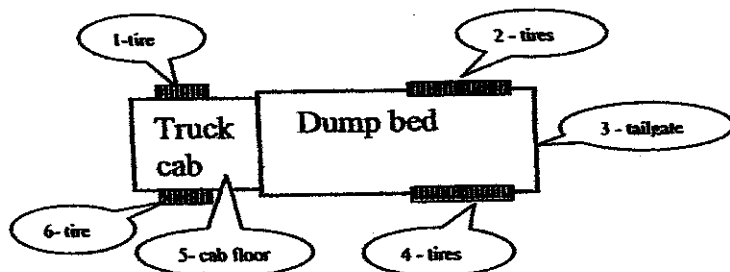
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 586532 | GRID 0000 |
| WEIGHMASTER 6500056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 11:56 am |
| DATE OUT 23 August 2007 | | TIME OUT 11:56 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645006 | ORIGIN | |

Gross Weight 84,700.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 47,720.00 lb 23.66 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.66 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____

NON-HAZARDOUS WASTE MANIFEST

0645006

Please print or type

| | | | | | |
|--|--|--------------------------|---|---|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960600 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| a. Norm Soil | | | CO L87 070008 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Manuel Ruiz | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

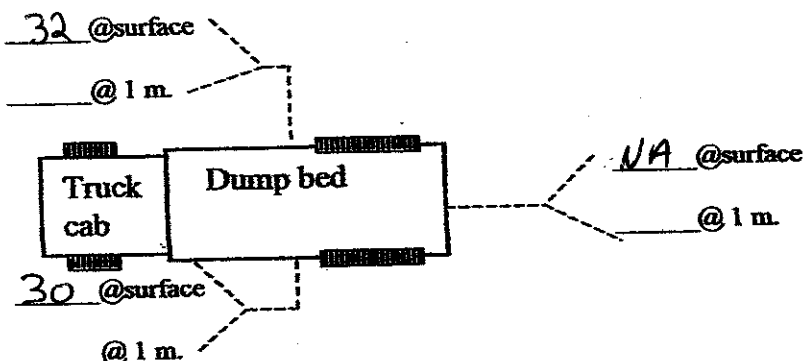
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1147 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 95 12
WA

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

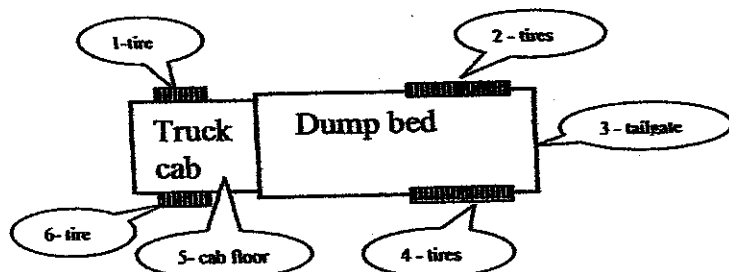
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 584534 | GRID 0000 |
| WEIGHMASTER PS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 12:06 pm |
| DATE OUT 23 August 2007 | | TIME OUT 12:06 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 645008 | ORIGIN | |

Gross Weight 87,200.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 49,500.00 lb 24.75 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.75 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]

NON-HAZARDOUS WASTE MANIFEST

0645008

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3908 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3908 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name Greene Trucking #112 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Fox Hills Landfill 8500 Hwy 90 Golden, CO ACCOUNT # 060803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L67 070908 Y511915 | | D-Drums 6-Gallons | |
| b. | | | | Y-Yards Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| John O'Connell | | | | 8 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

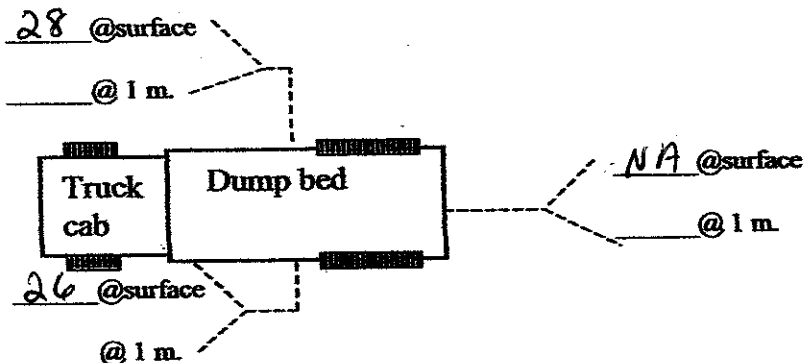
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1155 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

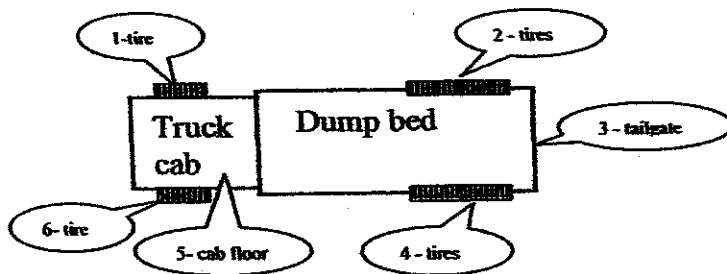
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 569.6 | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 980603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 584543 | GRID 0000 |
| WEIGHMASTER BS00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 12:14 pm |
| DATE OUT 23 August 2007 | | TIME OUT 12:14 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645007 | ORIGIN | |

Gross Weight 87,000.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 49,800.00 lb 24.90 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.90 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Kens

NON-HAZARDOUS WASTE MANIFEST

0645007

Please print or type:

| | | | | | |
|--|--|--------------------------|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3900 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3900 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | | | 8. US EPA ID Number | |
| 10. Transporter #2 Company Name | | | | 11. US EPA ID Number | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO ACCOUNT # 000000 (Colorado School of Mines) | | | | 14. US EPA ID Number | |
| 16. Waste Shipping Name and Description | | | | 17. Allied Waste Approval # and Exp. Date | |
| a. None, Soil | | | | OG 127 07000 Y511915 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 23 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name KERSHannon | | | | Signature [Signature] Month 08 Day 23 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

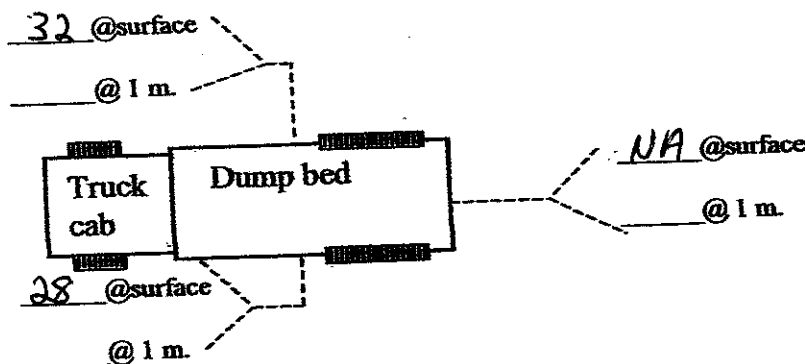
TRANSPORTER #1

COM000088

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1202 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: JD 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

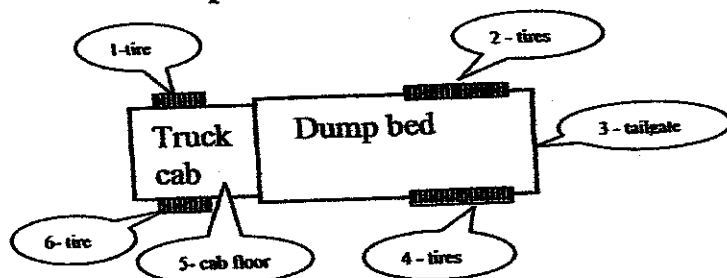
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|----------------------|--------------|
| SITE 01 | TICKET 586548 | GRID 0000 |
| WEIGHMASTER BSC0056 Barbara Jo S | | |
| DATE IN 23 August 2007 | TIME IN 12:22 PM | |
| DATE OUT 23 August 2007 | TIME OUT 12:22 PM | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 572495 | ORIGIN | |

Gross Weight 83,700.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 48,120.00 lb 24.06 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE

[Handwritten Signature]



ALLIED WASTE

NON-HAZARDOUS WASTE MANIFEST

0592495

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | D Drums | |
| | | | | G Gallons | |
| a. Norm Soil | | CO L67 070908 Y611915 | | 18 Y Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benhman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | | | Signature [Signature] | |
| | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

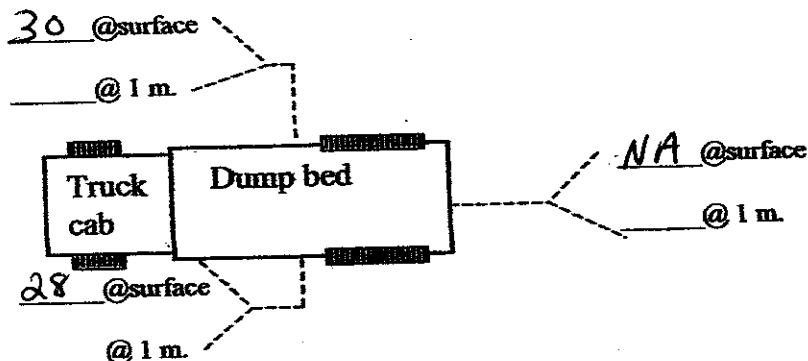
TRANSPORTER #2

COM000833

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1209 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

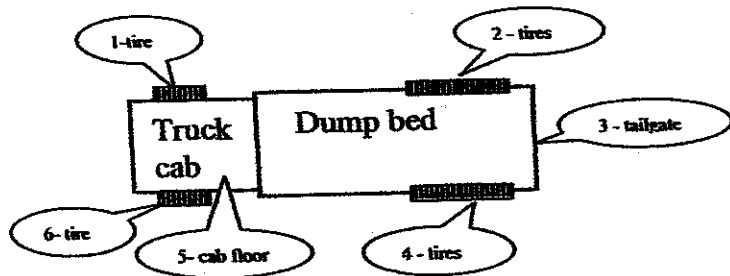
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

ST-RAD-GEN-006

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
750603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 554547 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 23 August 2007 | 12:27 pm | |
| DATE OUT | TIME OUT | |
| 23 August 2007 | 12:27 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 592496 | | |

Gross Weight 87,640.00 lb
Tare Weight 35,100.00 lb
Net Weight 52,540.00 lb 26.27 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 26.27 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]

| Please print or type. | | | | | | | | | |
|--|--|--|---|--|---|--|--------------------|----------------|----------------|
| 1. Generator's US EPA ID Number | | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | | | |
| 4. Phone () | | | 6. Phone () | | 9. Transporter #1's Phone | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 15. Facility's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Potomac Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 981603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 17. Allied Waste Approval # and Exp. Date | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | | 20. Unit |
| a. Norm Soil | | | CO L67 070908 Y511915 | | No. Type | | Drums Gallons | | Y-Yards T-Tons |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month Day Year | |
| Steve Bingham | | | | | [Signature] | | | 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month Day Year | |
| MARK FRELON | | | | | [Signature] | | | 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month Day Year | |
| | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month Day Year | |
| | | | | | | | | | |

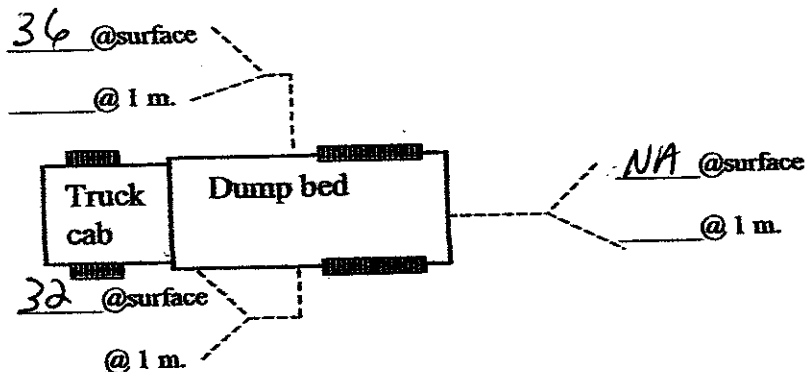
COM000033

TRANSPORTER #2

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/23/07 1216 Surveyed by: J Mattson / C Hicks
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

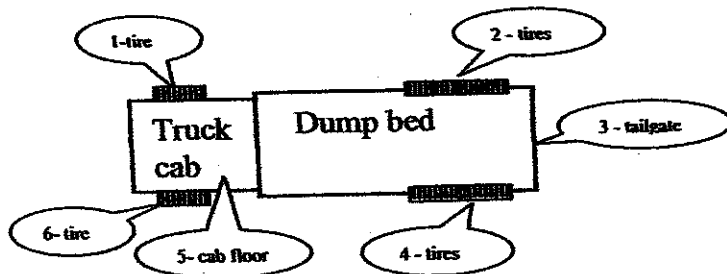
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | α 1 cpm | β 268 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 569.6 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 554552 | GRID 0000 |
| WEIGHMASTER ES00056 Barbara Jo S | | |
| DATE IN 23 August 2007 | | TIME IN 12:36 pm |
| DATE OUT 23 August 2007 | | TIME OUT 12:36 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 593497 | | ORIGIN |

Gross Weight 84,060.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 47,480.00 lb 23.74 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.74 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____

NON-HAZARDOUS WASTE MANIFEST

0592497

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 3900 Hwy 93 Golden, CO ACCOUNT # 960903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L87 070903 Y511915 | | D-Drums | |
| | | | | Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/23/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Hernandez | | | | 8/23/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #2

COM000033

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | |
|-------------|---------|---------|----------|----------------------------|--------|
| Griever 24 | 8-22-07 | 1145 | 1152 | 18 yds | 83280 |
| Murray 461 | | 1150 | 1156 | | 82800 |
| JD 04 | | 1155 | 1202 | | 77100 |
| Marquez 96 | | 1200 | 1208 | | 77700 |
| Griever 8 | | 1206 | 1214 | | 82700 |
| Griever 23 | | 1212 | 1219 | | 80700 |
| Collazo 13 | | 1220 | 1230 | | 81,800 |
| JD 01 | | 1230 | 1237 | | 79,900 |
| Griever 12 | | 1240 | 1251 | | 81,600 |
| Griever 24 | | 1250 | 1302 | | 84,200 |
| Murray 461 | | 1300 | 1307 | | 82,400 |
| Marquez 961 | | 1306 | 1314 | | 80,200 |
| Ruiz 95 | | 1312 | 1319 | | 80,100 |
| JD 04 | | 1315 | 1324 | | 73800 |
| Griever 8 | | 1320 | 1330 | | 81,200 |
| Griever 23 | | 1325 | 1335 | | 82,100 |
| Marquez 96 | | 1335 | 1341 | | 77,400 |
| Collazo 13 | | 1340 | 1347 | | 84,400 |
| Griever 12 | | 1355 | 1404 | | 84,560 |
| JD 01 | ✓ | 1400 | 1408 | ✓ | 79100 |

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|-------------|---------|---------|----------|----------------------------|
| Grieve 24 | 8/22/07 | 1405 | 1415 | 18 |
| Murray 461 | 8/22/07 | 1410 | 1421 | |
| Marquez 961 | 8/22/07 | 1422 | 1433 | |
| Ruiz 95 | 8/22/07 | 1429 | 1440 | |
| JD 04 | 8/22/07 | 1435 | 1445 | |
| Grieve 8 | 8/22/07 | 1445 | 1452 | |
| Grieve 23 | 8/22/07 | 1450 | 1500 | |
| Marquez 96 | 8/22/07 | 1500 | 1505 | |
| Collazo 13 | 8/22/07 | 1505 | 1512 | |
| Grieve 12 | 8/22/07 | 1510 | 1519 | |
| JD01 | 8/22/07 | 1518 | 1524 | |
| Grieve 24 | 8/22/07 | 1520 | 1532 | |
| Murray 461 | 8/22/07 | 1530 | 1547 | |
| Grieve 8 | 8/22/07 | 1548 | 1553 | |
| Ruiz 95 | 8/22/07 | 1550 | 1600 | |
| Marquez 961 | 8/22/07 | 1555 | 1608 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

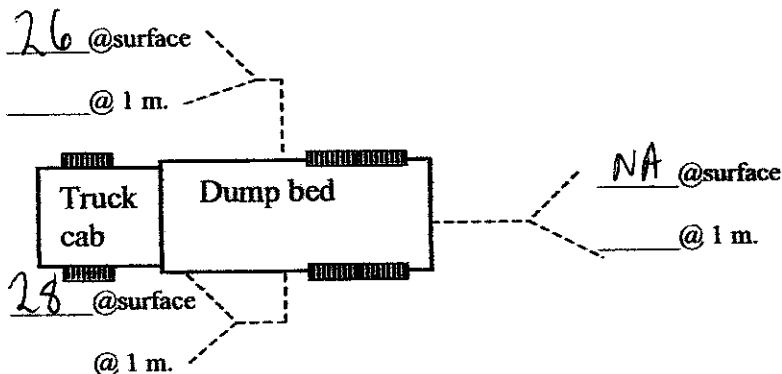
84,700
82,800
81,300
82,080
76,400
83,300
82,600
77,700
82,800
81,200
76,500
84,300
80,600
79,400
81,100
81,400

76 trucks 8/22/07

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1152 Surveyed by: C Hicks / J Mattson
 Trucking Company: Onire Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

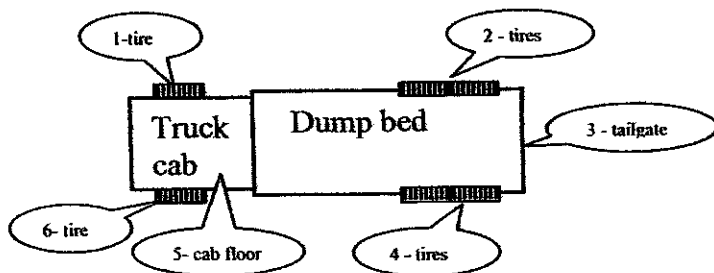
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

24 503722

FOOTHILL LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE1191E

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 286131 | 0000 |
| WEIGHMASTER | | |
| MS00056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 22 August 2007 | | 12:08 pm |
| DATE OUT | | TIME OUT |
| 22 August 2007 | | 12:08 pm |
| VEHICLE | | ROLL OFF |
| YE1191E | | |
| REFERENCE | ORIGIN | |
| 445106 | | |

Gross Weight 83,250.00 lb
Tare Weight 37,200.00 lb
Net Weight 46,050.00 lb 23.04 TN
Incurred -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.04 | TN | 60-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE Kew

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645106

Please print or type

| | | | | | | | | |
|--|--|--|--|---|------|--------------------|----------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | | | |
| 4. Phone () | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name SOGRIEVE Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Fountain Creek 1540 Hwy 93 Golden, CO ACCOUNT # 100000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description: a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 187 070003 7/11/95 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | D-Drums | 3-Drums | |
| | | | | 18 | Y | Y-Yards | T-Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brakeman | | | | Signature | | Month | Day | Year |
| | | | | | | | 2 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | Month | Day | Year |
| | | | | | | 08 | 22 | 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| | | | | | | | | |

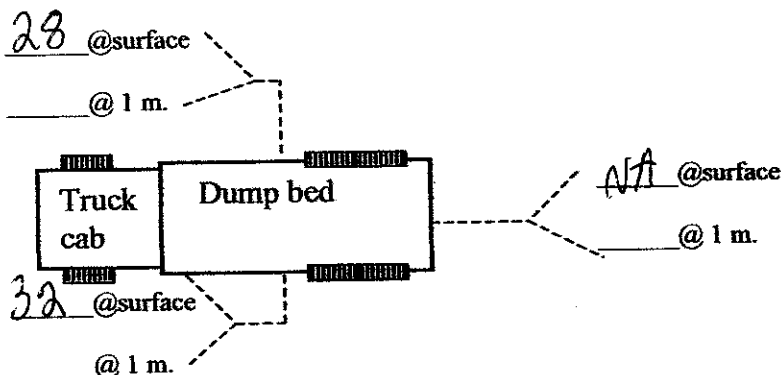
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1156 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

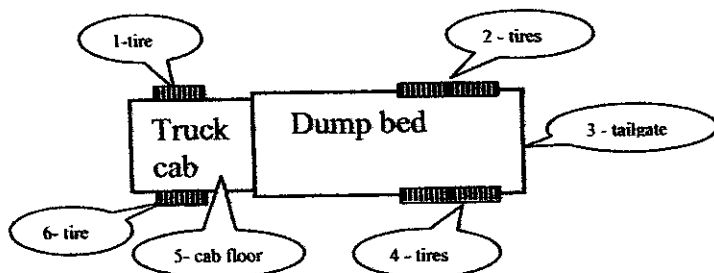
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

SIGNATURE



461

NON-HAZARDOUS WASTE MANIFEST

0645107

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 99 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

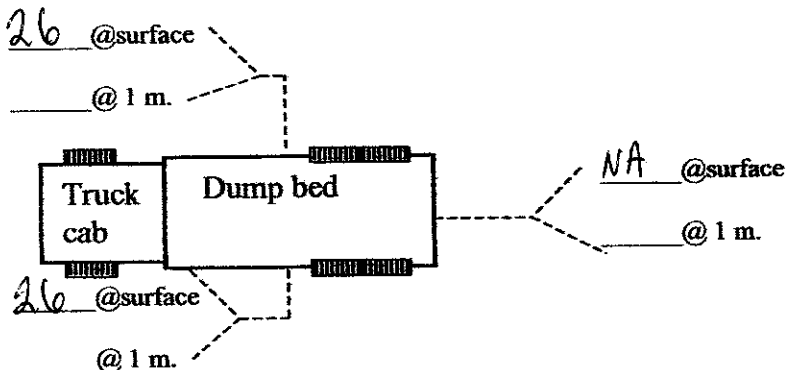
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1202 Surveyed by: C Hicks / J Mathson
 Trucking Company: Grieve Truck license plate no. /state: TD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

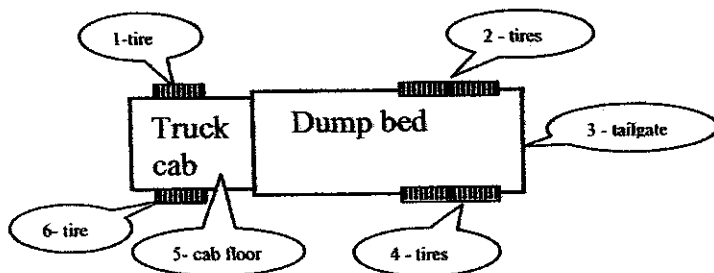
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

303721 37

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: 7511915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | EB0140 | 0000 |
| WEIGHMASTER | | |
| 0300053 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 22 August 2007 | | 12:21 pm |
| DATE OUT | | TIME OUT |
| 22 August 2007 | | 12:21 pm |
| VEHICLE | | ROLL OFF |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 645106 | | |

Gross Weight 77,100.00 lb
Tare Weight 35,640.00 lb Incurred -
Net Weight 41,460.00 lb 20.73 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.73 | TN | SH-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature] 8-22-07



NON-HAZARDOUS WASTE MANIFEST

0645108

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L07 070900 Y511915 | | 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 8 2 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Santiago Vargas | | Vargas | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

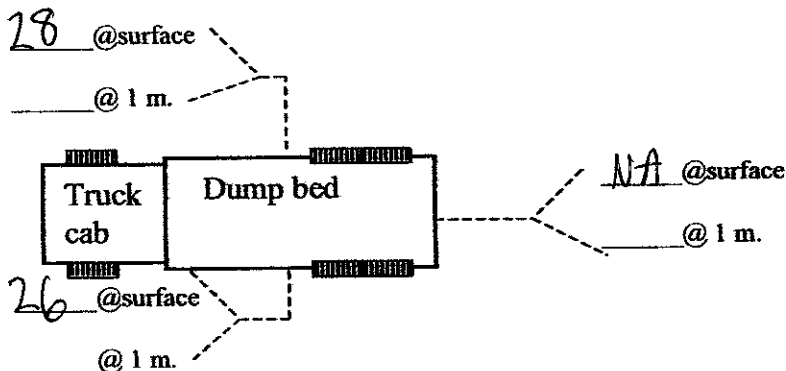
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1208 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

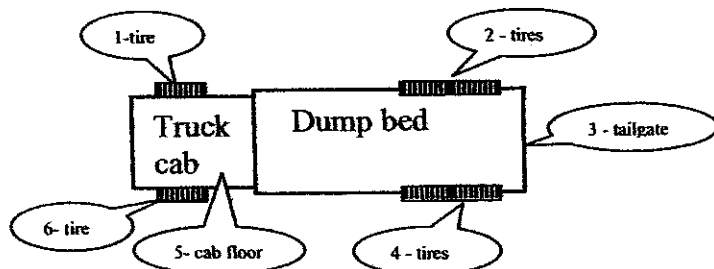
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

583726 7/2

FOOTHILLS LANDFILL
2700 HIGHWAY 50
GOLDEN
CO
80603

COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 586145 | GRID 0000 |
| WEIGHMASTER #500056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 2:05 PM |
| DATE OUT 22 August 2007 | | TIME OUT 12:25 PM |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 545078 | ORIGIN | |

Gross Weight 77,700.00 lb
Tare Weight 36,580.00 lb
Net Weight 41,120.00 lb 20.36 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.36 | TN | SW-COINT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0645078

Please print or type

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | D-Drums | 6-Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature | | Month 8 | Day 22 | Year 04 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month 8 | Day 22 | Year 04 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

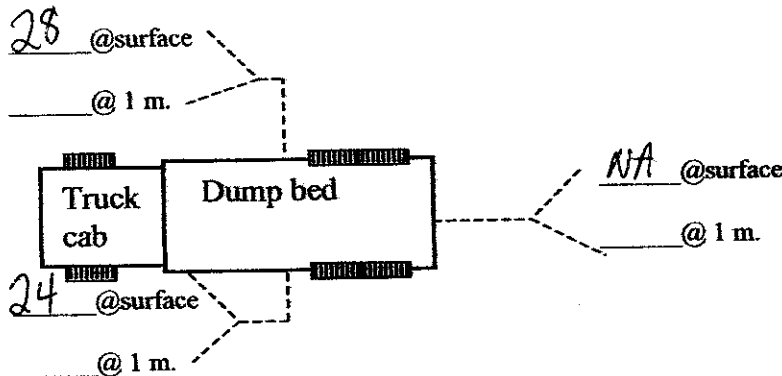
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1214 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

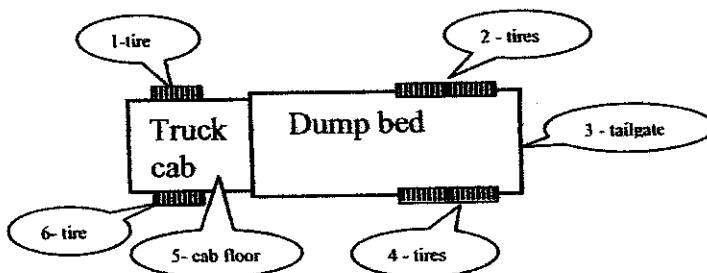
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

303723 5

FOOTHILLS LANDFILL
 9900 HIGHWAY 93
 GOLDEN
 CO
 804603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 586147 | GRID 0000 |
| WEIGHMASTER 2800056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 12:30 pm |
| DATE OUT 22 August 2007 | | TIME OUT 12:30 pm |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 645077 | ORIGIN | |

Gross Weight 82,660.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 46,120.00 lb 23.06 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.06 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645077

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St. Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 00167-0709081511915 | | 18 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity C.Y. or cu. yds. 7 Yards | | | | | |
| 20. Unit Wt/Vol Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month Day Year 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

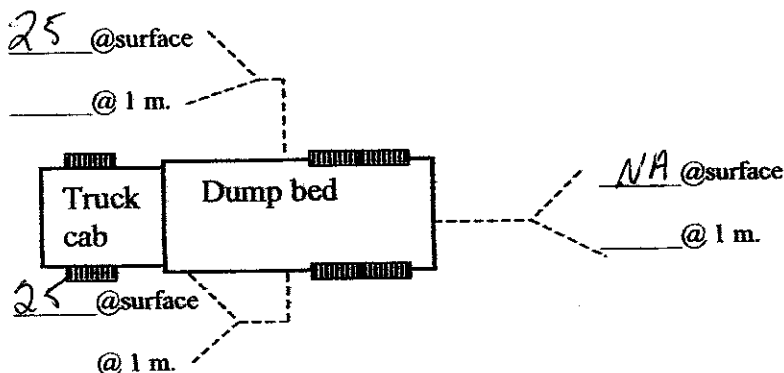
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1219 Surveyed by: C Hicks / J Mattson
 Trucking Company: Conieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

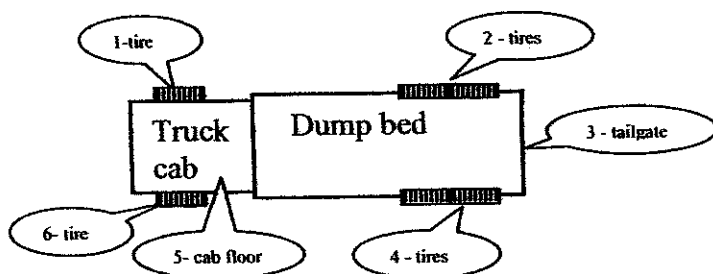
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

5087334-

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 568152 | GRID 0000 |
| WEIGHMASTER 1600054 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 12:55 pm |
| DATE OUT 22 August 2007 | | TIME OUT 12:55 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645076 | ORIGIN | |

Contract: Y511915

Gross Weight 80,680.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 45,580.00 lb 22.79 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.79 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645076

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footmills Landfill 1900 Hwy 93 Golden, CO ACCOUNT # 960003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070900 Y511915 | | 19. Total Quantity D-Drums 3 Gallons Y-Yards 16 T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHILLAN | | Signature | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Derek Page | | Signature | | Month Day Year 8 22 07 | |

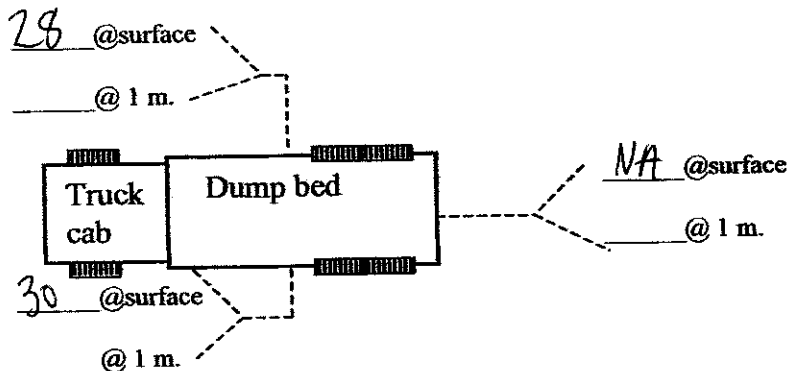
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1230 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

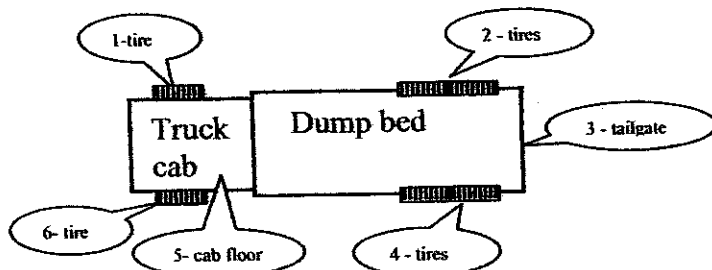
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503736

FOOTHILLS LANDFILL
 3700 HIGHWAY 93
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 506155 | GRID 0000 |
| WEIGHMASTER 1500055 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 12:49 PM |
| DATE OUT 22 August 2007 | | TIME OUT 12:49 PM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 545069 | ORIGIN | |

Gross Weight 81,800.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 46,100.00 lb 23.05 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645069

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L97 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit Wt/Vol G-Gallons T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Michael Collazo Lopez | | Signature | | Month Day Year 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Dennis L. Smith | | Signature | | Month Day Year | |

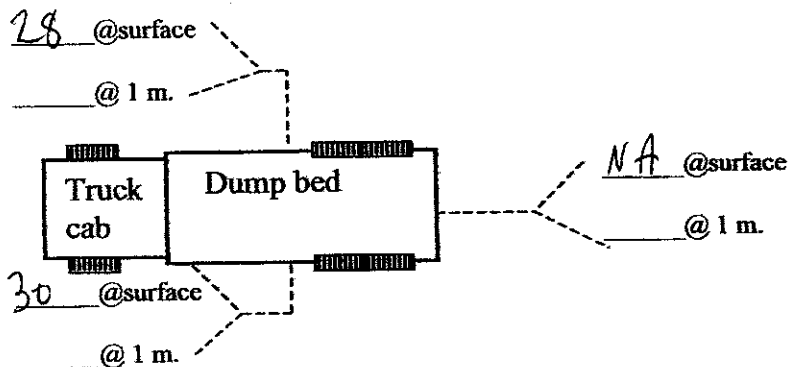
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1231 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

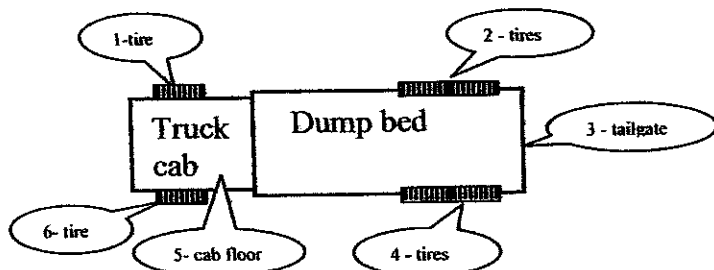
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

503121

FOOTHILLS LANDFILL
3700 HIGHWAY 93
GOLDEN
CO
806603
COLORADO SCHOOL OF MINES
1700 ILLINOIS ST
GOLDEN, CO 80401

Contract# YB1191E

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 5861E6 | 0000 |
| WEIGHMASTER | | |
| 5000056 Barbark Jo E | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 12:54 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 12:54 pm | |
| VEHICLE | ROLL OFF | |
| YB1191E | | |
| REFERENCE | ORIGIN | |
| 645070 | | |

Gross Weight 79,850.00 lb
Tare Weight 35,580.00 lb
Net Weight 44,300.00 lb 22.1E TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.1E | TN | 50-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645070

Please print or type

| | | | | | | | | | |
|--|--|---|--|---|--|--------------------|--|------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2500 Hwy 93 Golden, CO ACCOUNT # 900903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | No. Type | | D Drums 3 Gallons | | Y-Yards T-Tons | |
| a. Norm Soil | | CO L87 070908 VS11915 | | 1 | | 1 | | | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] | | | | Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name JOSE W Ruiz | | | | Signature [Signature] | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |

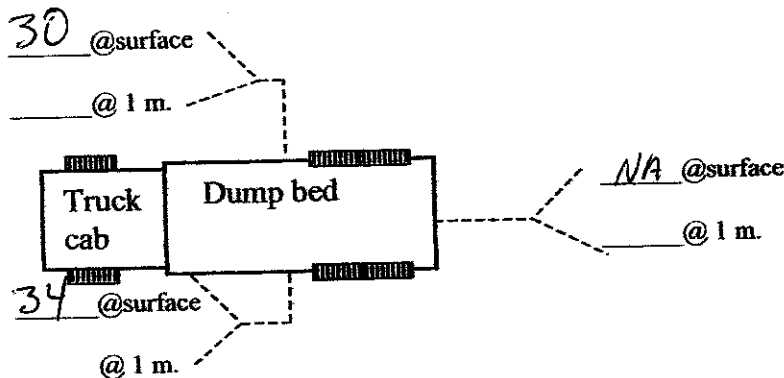
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1251 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

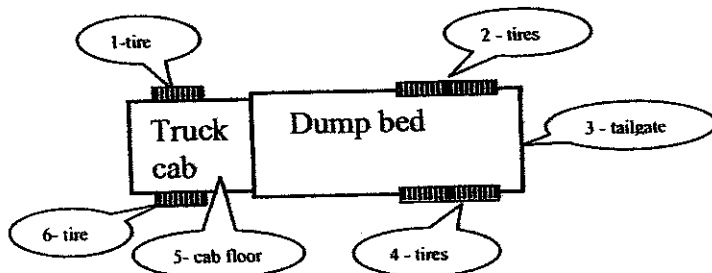
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

583713 12

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
80605
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 786163 | 0000 |
| WEIGHMASTER | | |
| 5800056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 1:08 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 1:08 pm | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 645071 | | |

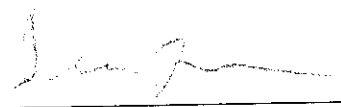
Gross Weight 81,640.00 lb
Tare Weight 27,700.00 lb
Net Weight 43,940.00 lb 21.77 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.77 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

0645071

Please print or type.

| | | | | | |
|--|--|----------------------------|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | 8. US EPA ID Number | |
| 7. Transporter #1 Company Name Grive Trucking H12 | | 9. Transporter #1's Phone | | 10. Transporter #2 Company Name | |
| 11. US EPA ID Number | | 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990603 (Colorado School of Mines) | |
| 14. US EPA ID Number | | 15. Facility's Phone | | 16. Waste Shipping Name and Description | |
| 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18. Containers No. Type 18 Y-Yards | |
| b. | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| c. | | | | 20. Unit Wt/Vol T-Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bankman | | | | Signature [Signature] Month 8 Day 27 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 27 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year | |

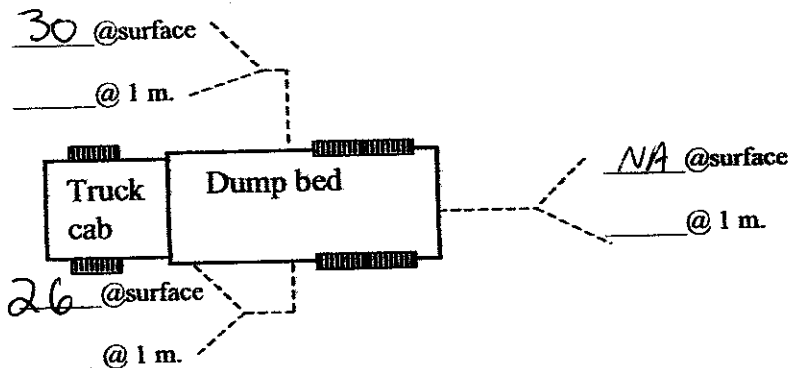
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 ¹³⁰² 1415 Surveyed by: C Hicks / J Mattson
 Trucking Company: Conve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

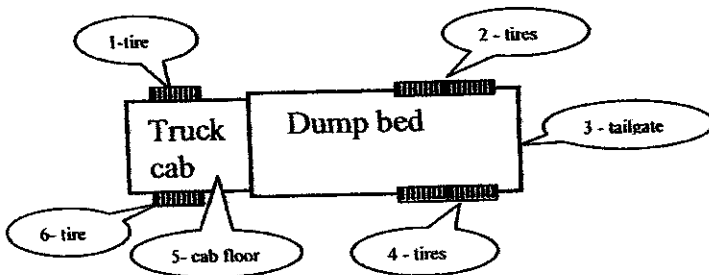
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YB11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 326169 | 0000 |
| WEIGHMASTER | | |
| 2500036 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 1:17 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 1:17 pm | |
| VEHICLE | ROLL OFF | |
| YB11915 | | |
| REFERENCE | ORIGIN | |
| 645072 | | |

Gross Weight 84,190.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 46,990.00 lb 23.45 TH

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.45 | TH | SW-CONT SOIL | | | | |
| 1.00 | LA | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Kens



NON-HAZARDOUS WASTE MANIFEST

0645072

27

Please print or type.

| | | | | | | | | |
|--|--|--|--|----------------------------|------|--------------------|-----------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator Name and Mailing Address 1500 Illinois St. Golden, CO 80401 303-273-3898 | | | 5. Generating Location (if different from 3) School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3898 | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address 3000 Hwy 90 Golden, CO ACCOUNT # 000000 (Golden School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Waste Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 187 070900 7611915 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | D-Drums | G-Gallons | |
| | | | | 18 | Y | Y Yards | T-Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 8 | Day 22 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | Month 08 | Day 22 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

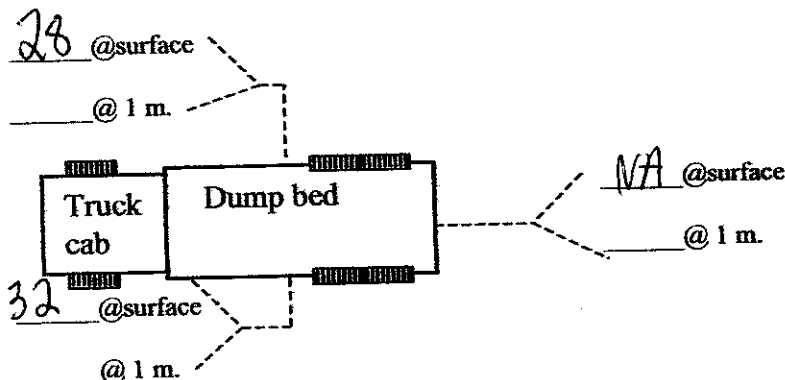
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1307 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

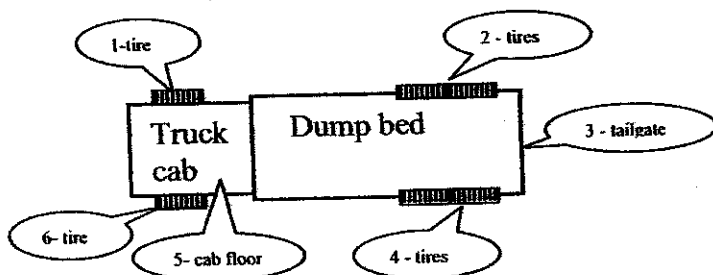
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 5220 | | | | 52200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503754 401

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586173 | | 0000 | |
| WEIGHMASTER | | | | | |
| #500054 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 1:26 pm | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 1:26 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645073 | | | | | |

Contract: Y511915

Gross Weight 82,400.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 48,140.00 lb 24.07 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.07 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Handwritten Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645073

Please print or type.

| | | | | | | | |
|--|--|--|---|----------------------------|------|---|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity Drums Gallons Y-Yards Tons | 20. Unit Wt/Vol |
| | | | | No. | Type | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Mike Maray | | | | Signature [Signature] | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

TRANSPORTER #2

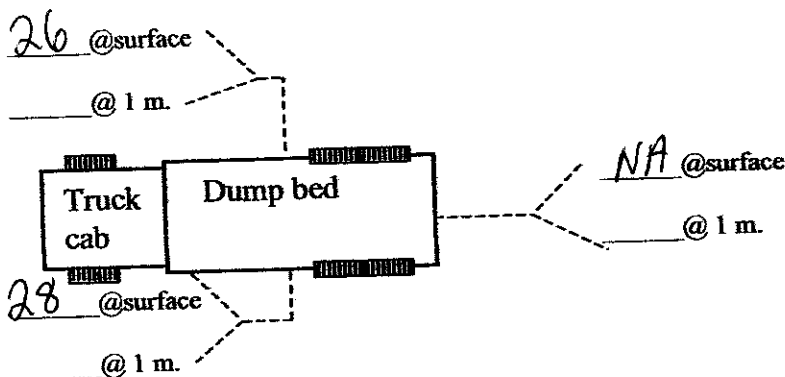
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1314 Surveyed by: C Hicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

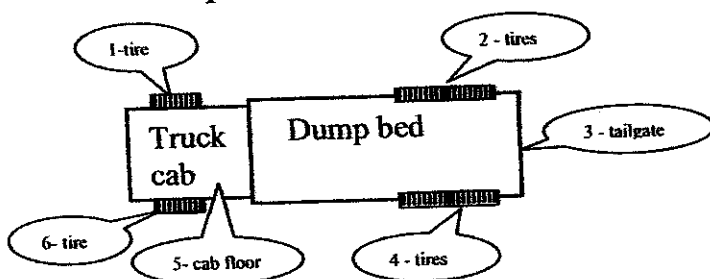
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503762 961

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586161 | 0000 |
| WEIGHMASTER | | |
| 8300056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 1:05 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 1:35 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645075 | | |

Contract: Y511915

Gross Weight 80,200.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 45,800.00 lb 22.90 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.90 | TN | SW-COAT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645075

761

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 880613 (Colorado School of Mines) | | 14. US EPA ID Number | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D Drums Y-Yards -Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 12 03 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Alberto Martinez | | Signature | | Month Day Year 8 12 03 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

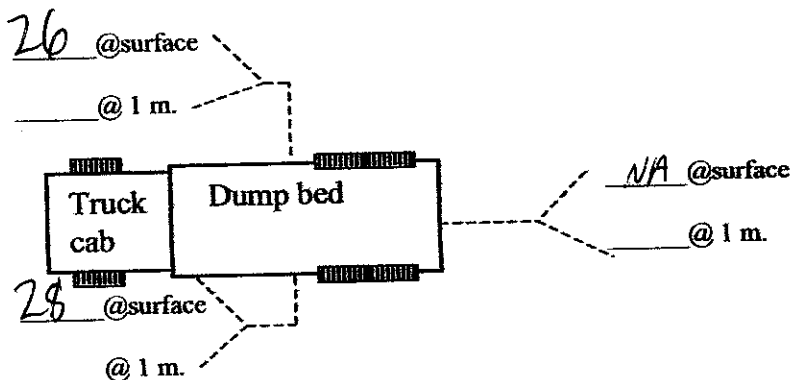
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1319 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

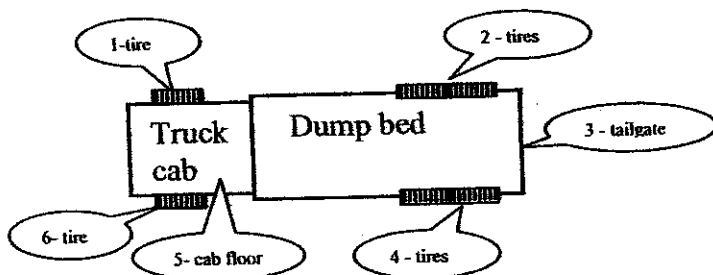
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503780 95

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 526185 | 0000 |
| WEIGHMASTER | | |
| B000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 1:38 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 1:38 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645074 | | |

Gross Weight 80,080.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 43,100.00 lb 21.55 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.55 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645074

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Manuel Ruiz | | Signature | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

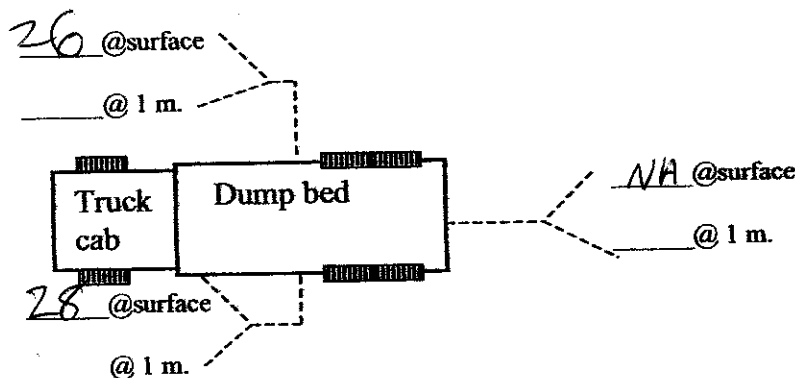
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1324 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

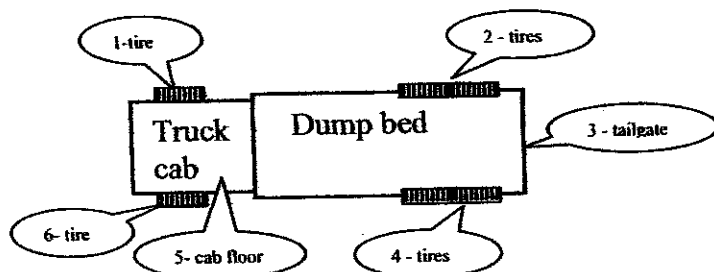
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

303771 09

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586190 | | 0000 | |
| WEIGHMASTER | | | | | |
| 280005a Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 1:43 pm | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 1:43 pm | | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645068 | | | | | |

Gross Weight 73,840.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 38,200.00 lb 19.10 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.10 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature] 8-22-07



NON-HAZARDOUS WASTE MANIFEST

0645068

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 0 Drums 0 Gallons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Sanjiv Varma | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

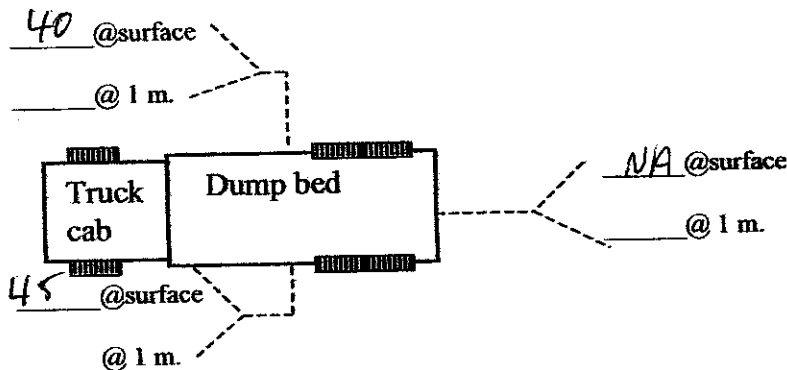
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1330 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

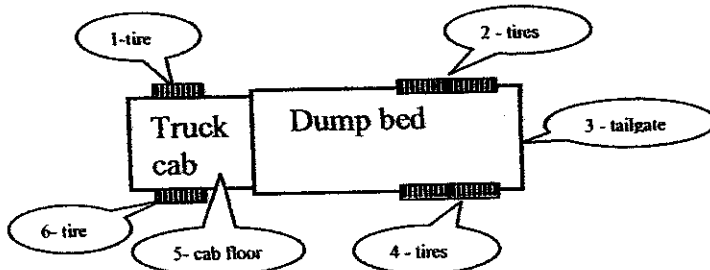
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

303/10 0

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 566197 | 0000 |
| WEIGHMASTER | | |
| 5600056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 1:50 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 1:50 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645067 | | |

Gross Weight 81,220.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 44,680.00 lb 22.34 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.34 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten signature]

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
|--|--|--------------------------|--|--|--|
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3946 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3946 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6900 Hwy 95 Golden, CO ADDITIONAL # 004854 (Colorado School of Mines) | | 14. US EPA ID Number | | 17. Allied Waste Approval # and Exp. Date | |
| 16. Waste Shipping Name and Description | | 18. Containers | | 19. Total Quantity | |
| a. Norm Soil | | No. Type | | Gallons | |
| b. | | 18 Y | | Yards Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 12 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

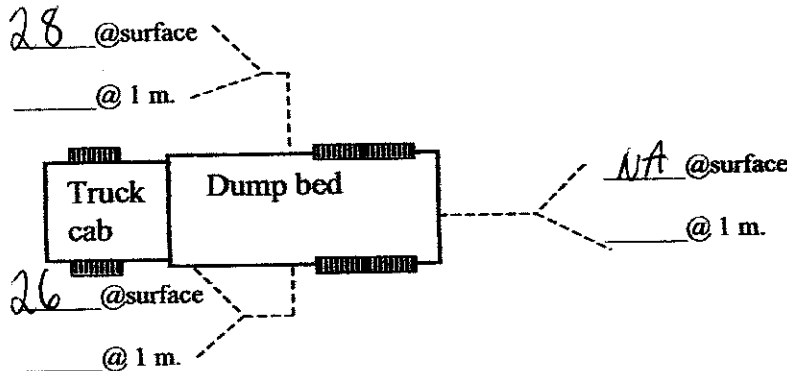
COM000033

TRANSPORTER #1

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1335 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

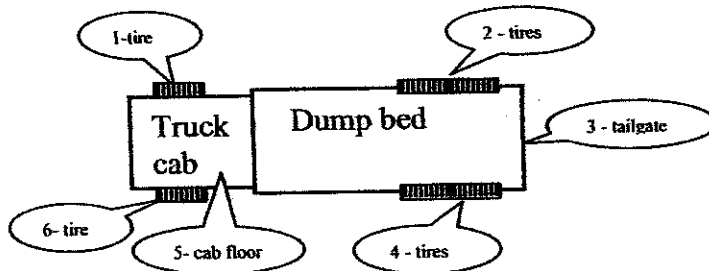
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503732 24

FOOTHILLS LANDFILL
 8700 HIGHWAY 92
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586201 | 0000 |
| WEIGHMASTER | | |
| 5800056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 1:54 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 1:54 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645066 | | |

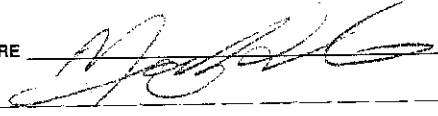
Gross Weight 82,060.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 46,960.00 lb 23.48 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.48 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

0645066

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footbills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | COL67070908 Y511915 | | 19. Total Quantity D-Drums 0 Gallons Y-Yards 16 T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | [Signature] | | 8/22/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mark Phelan | | [Signature] | | 8/22/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

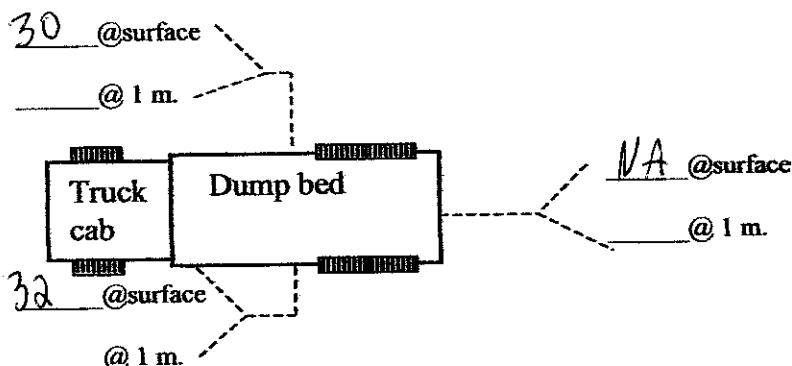
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1341 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

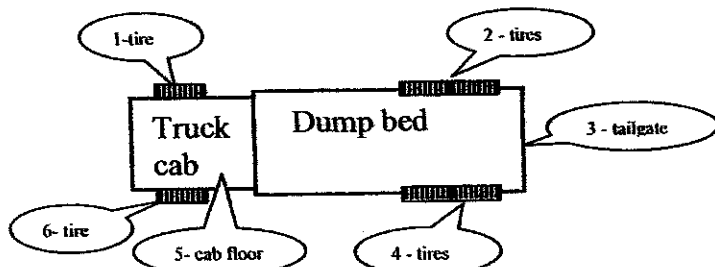
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6% | 13.9% | |
| MDA | NA | 76.2 | 553.0 | |

503.38 74

FOOTHILLS LANDFILL
2500 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

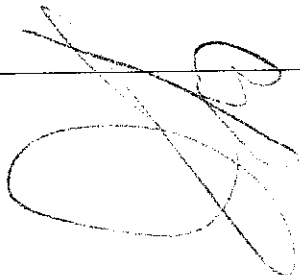
Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556207 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 2:00 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 2:00 PM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645065 | | |

Gross Weight 77,440.00 lb
Tare Weight 36,580.00 lb
Net Weight 40,860.00 lb 20.43 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.43 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645065

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/22/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Barro | | | | 9/22/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

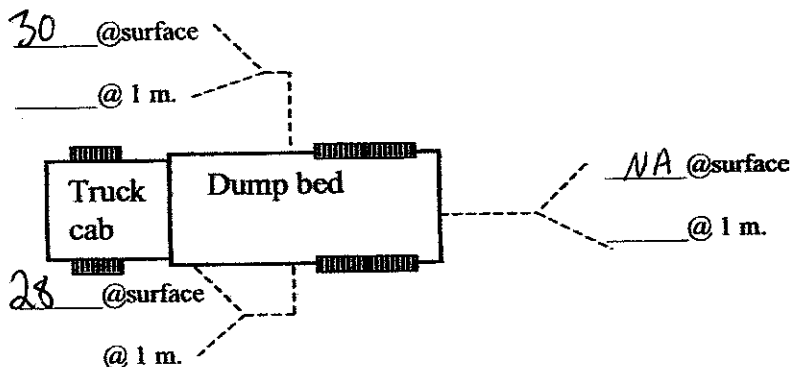
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1347 Surveyed by: C Hicks / J Matheson
 Trucking Company: Greve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

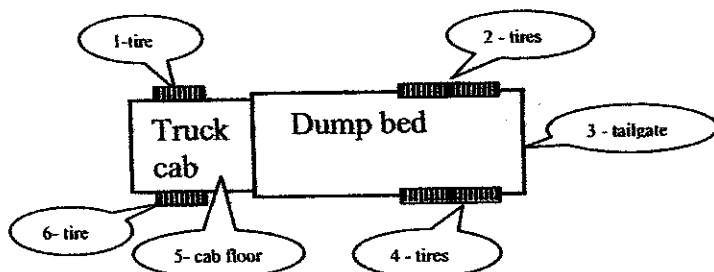
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

50379# 13

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------------|--|------------------|---------------------|--------------|--|
| SITE 01 | | TICKET 888213 | | GRID 0000 | |
| WEIGHMASTER | | | | | |
| 2500056 Barbara Jo S | | | | | |
| DATE IN 22 August 2007 | | | TIME IN 2:07 pm | | |
| DATE OUT 22 August 2007 | | | TIME OUT 2:07 pm | | |
| VEHICLE Y511915 | | | ROLL OFF | | |
| REFERENCE 845064 | | ORIGIN | | | |

GG Gross Weight 84,360.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 48,660.00 lb 24.33 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.33 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645084

Please print or type.

| | | | | | | | |
|--|--|--|--|--|------|--|-------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3996 | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960613 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity D Drums Y-Yards T-Tons | 20. Unit Wt/Vol Gallons |
| | | | | No. | Type | | |
| | | | | 18 | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Robert Calhoun Lopez | | | | Signature [Signature] | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year 8 22 07 | |

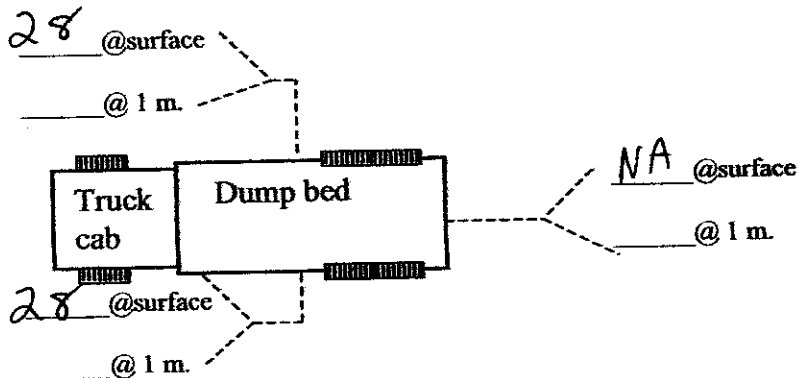
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1404 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

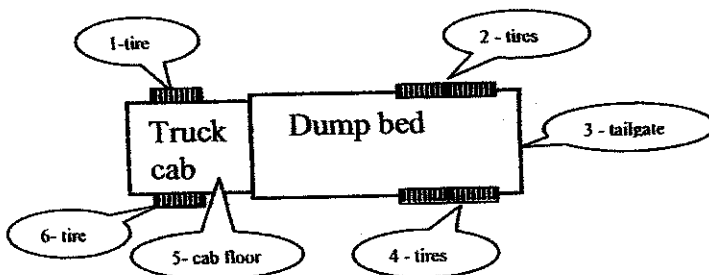
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503796 12

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586215 | 0000 |
| WEIGHMASTER | | |
| ES00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 2:22 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 2:22 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645059 | | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 8060603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

00 Gross Weight 84,560.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 46,860.00 lb 23.43 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.43 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645059

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Greene Trucking H12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960606 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | COL67 070908 Y511915 | | 19. Total Quantity D Drums <input checked="" type="checkbox"/> Gallons Y-Yards <input type="checkbox"/> T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Sean Oliver | | Signature | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Colorado School of Mines | | Signature | | Month Day Year 8 22 07 | |

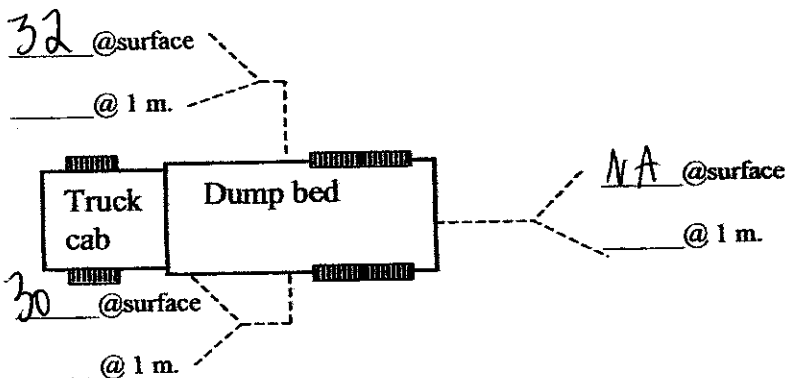
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1408 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

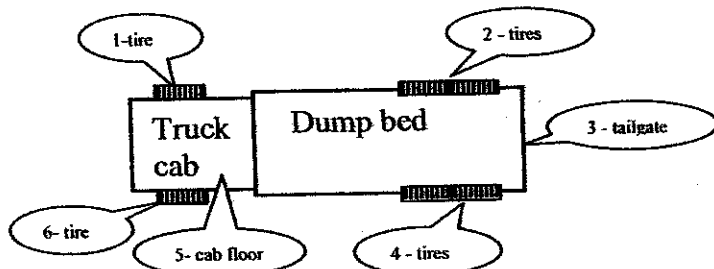
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 5220 | | | | 52200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

5833300 61

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586219 | | 0000 | |
| WEIGHMASTER | | | | | |
| B500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 2:25 pm | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 2:25 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645060 | | | | | |

00 Gross Weight 79,100.00 lb
 Tare Weight 35,580.00 lb Inbound -
 Net Weight 43,520.00 lb 21.76 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.76 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645060

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 90803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070900 Y511915 | | 19. Total Quantity 18 Y-Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature <i>[Signature]</i> | | Month Day Year 8 22 05 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | Signature <i>[Signature]</i> | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name B. Miller | | Signature <i>[Signature]</i> | | Month Day Year 10 16 05 | |

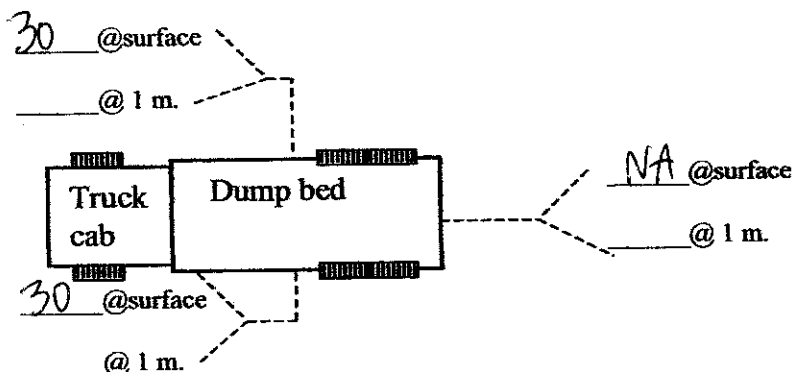
TRANSPORTER #2

COM060033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1415 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

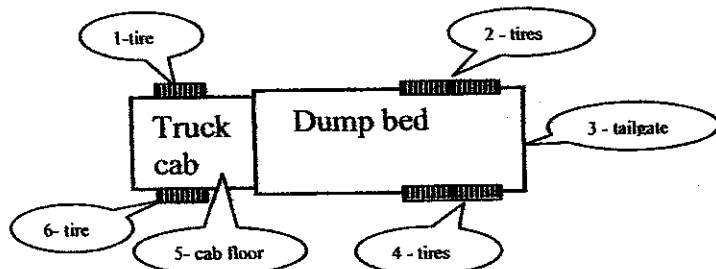
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6% | 13.9% | |
| MDA | NA | 76.2 | 553.0 | |

24 303806

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960606
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 566225 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 2:32 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 2:32 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645061 | | |

CO Gross Weight 84,740.00 lb
Tare Weight 37,200.00 lb Inbound --
Net Weight 47,540.00 lb 23.77 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.77 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE Kells

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



24

NON-HAZARDOUS WASTE MANIFEST

0645061

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | |
|--|------|---|--|--|--|-----|------|--------------------|-----------------|----|---|---------|-----------|--|--|---------|--------|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3900 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3900 | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name Joe Grieve-Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Tenneco Landfill 8900 Hwy 83 Golden, CO ADDRESSES MISSING (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | |
| a. Non Soil | | CO 067 070908 7511915 | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>Y</td> <td>0-Drums</td> <td>3-Gallons</td> </tr> <tr> <td></td> <td></td> <td>Y-Yards</td> <td>T-Tons</td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | 18 | Y | 0-Drums | 3-Gallons | | | Y-Yards | T-Tons |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | |
| 18 | Y | 0-Drums | 3-Gallons | | | | | | | | | | | | | | |
| | | Y-Yards | T-Tons | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| Steve Brinkman | | | | 8 21 07 | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| Ken Shannon | | | | 08 22 07 | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

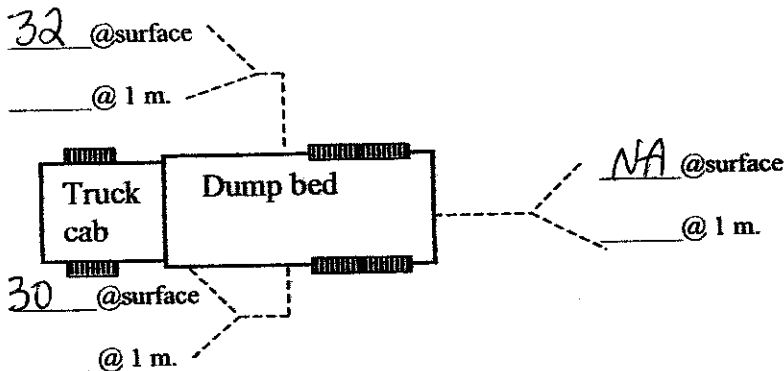
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1421 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

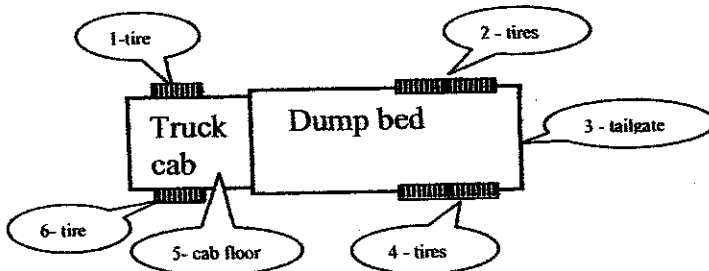
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

503821 461

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586230 | GRID 0600 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 2:38 pm |
| DATE OUT 22 August 2007 | | TIME OUT 2:38 pm |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645062 | ORIGIN | |

00 Gross Weight 82,800.00 lb
 Tare Weight 34,260.00 lb Inbound -
 Net Weight 48,540.00 lb 24.27 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.27 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE D. H. M.



NON-HAZARDOUS WASTE MANIFEST

0645062

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden CO ACCOUNT # 9606703 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | D-Drums G-Gallons | |
| b. | | | | Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | | | 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Kathleen Thompson | | | | 9 1 07 | |

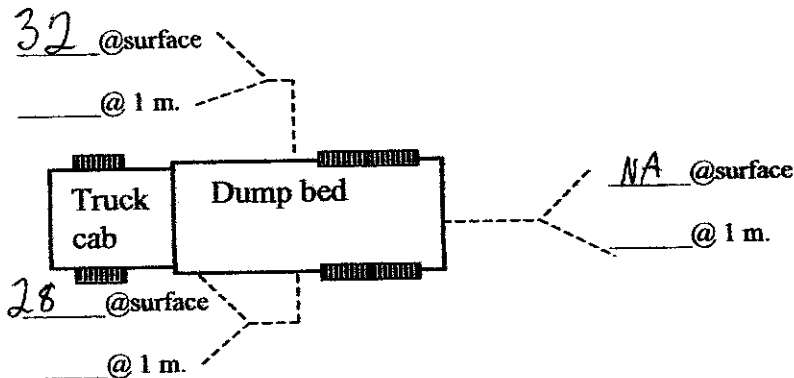
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1433 Surveyed by: C Hicks / J Mattson
 Trucking Company: Onite Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

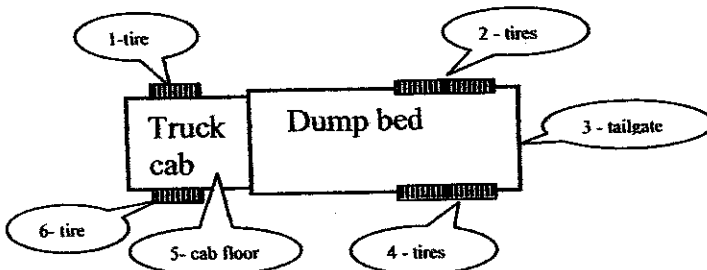
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

503821

40

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586241 | 0000 |
| WEIGHMASTER | | |
| DS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 2:57 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 2:57 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645063 | | |

Gross Weight 21,300.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 46,900.00 lb 23.45 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.45 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

A.A.



NON-HAZARDOUS WASTE MANIFEST

0645063

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity D Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Miguel Morales | | | | 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | 8 22 07 | |

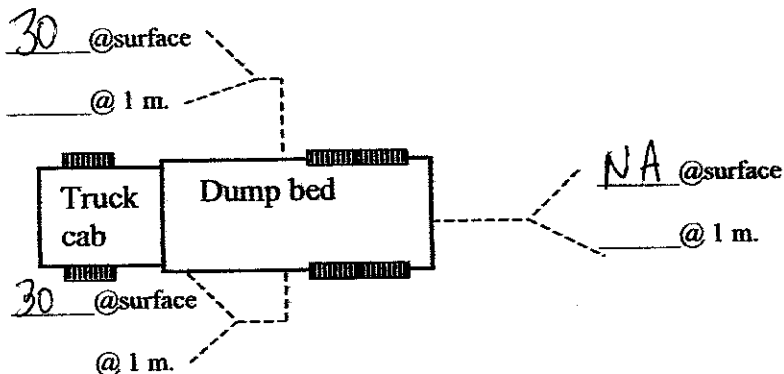
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1440 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

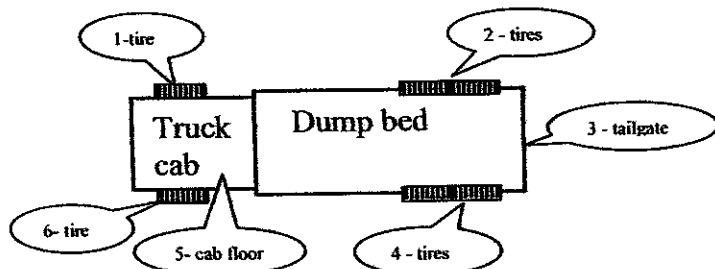
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

583824 45

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586244 | | 0000 | |
| WEIGHMASTER | | | | | |
| RS00056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 3:01 pm | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 3:01 pm | | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 64508 | | | | | |

Gross Weight 62,080.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 45,100.00 lb 22.55 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.55 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645058

Please print or type

| | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|------------------------|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0 Drums 0 Gallons |
| | | | | | No. | Type | |
| a. Norm Soil | | | CO L87 070903 Y511915 | | | | Y-Yards T-Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year 10 1 07 | |

TRANSPORTER #2

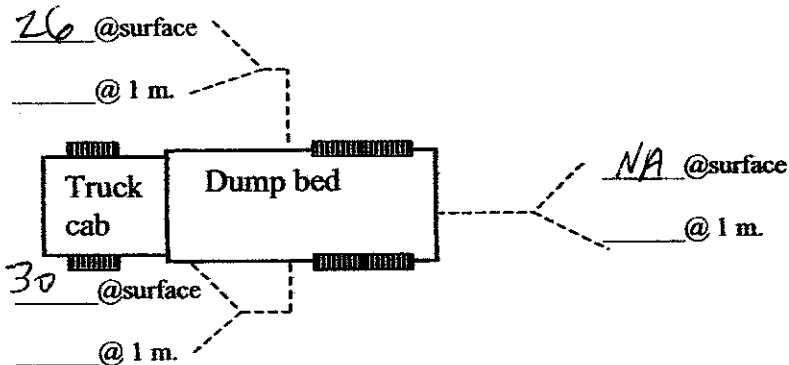
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1445 Surveyed by: C Hicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

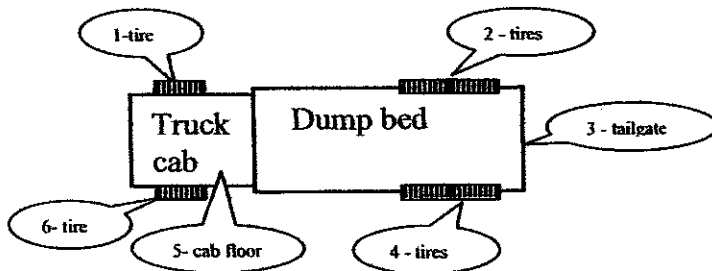
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503828

01

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760606
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586245 | 0000 |
| WEIGHMASTER | | |
| MS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 3:06 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 3:06 pm | |
| VEHICLE | ROLL OFF | |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 645057 | | |

Contract: Y511915

Gross Weight 76,360.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 40,720.00 lb 20.36 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.36 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

8-22-07



NON-HAZARDOUS WASTE MANIFEST

0645057

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit G-Gallons T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brakman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargas | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #2

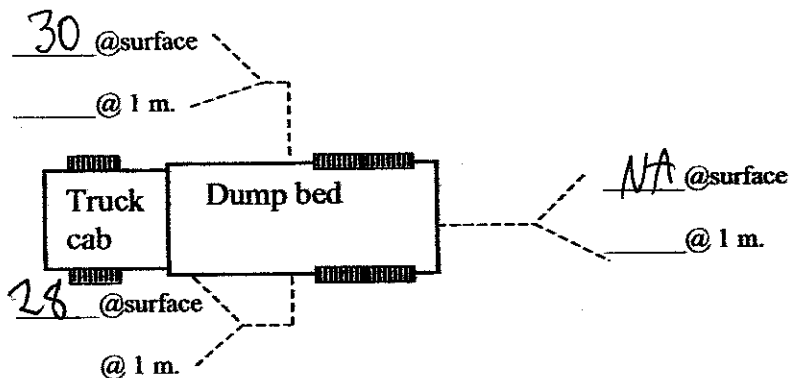
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1452 Surveyed by: C Hicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

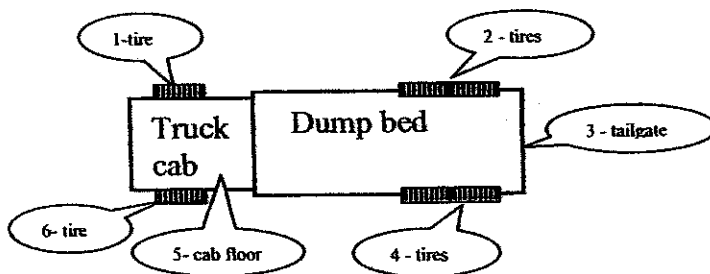
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 4220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

303830

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401
Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556250 | 0000 |
| WEIGHMASTER | | |
| B500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 3:10 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 3:10 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645098 | | |

Gross Weight 83,300.00 lb
Tare Weight 36,540.00 lb
Net Weight 46,760.00 lb 23.38 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.38 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645038

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO LE7 070908 Y511915 | | 19. Total Quantity D-Drums 0 Gallons Y-Yards 18 Y-Tons 4 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

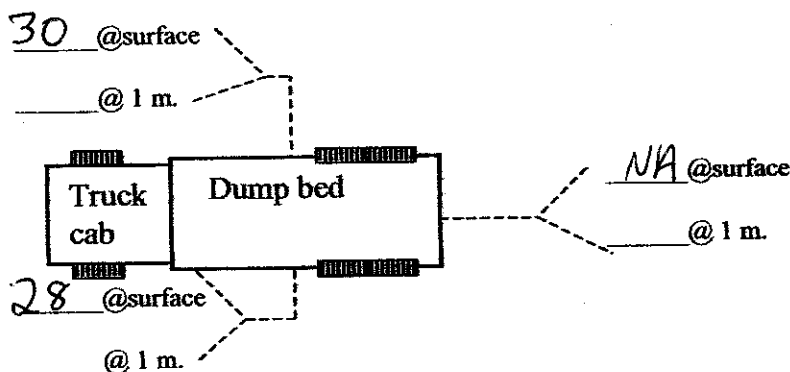
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1500 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

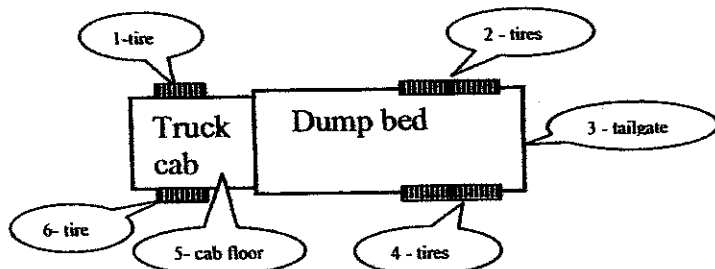
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

583833 22

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | | | | |
|----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 584253 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8900056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 3:20 pm | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 3:20 pm | | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645039 | | | | | |

Contract: Y511915

Gross Weight 82,600.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 47,500.00 lb 23.75 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.75 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645039

Please print or type.

| | | | | | | | | |
|--|--|--|--|---|------|--------------------|-----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 981603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date CO L67 070900 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | D-Drums | C-Gallons | |
| | | | | | | Y-Yards | -Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] | | Month 8 | Day 22 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature [Signature] | | Month 8 | Day 22 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature [Signature] | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 22 | Year 07 |

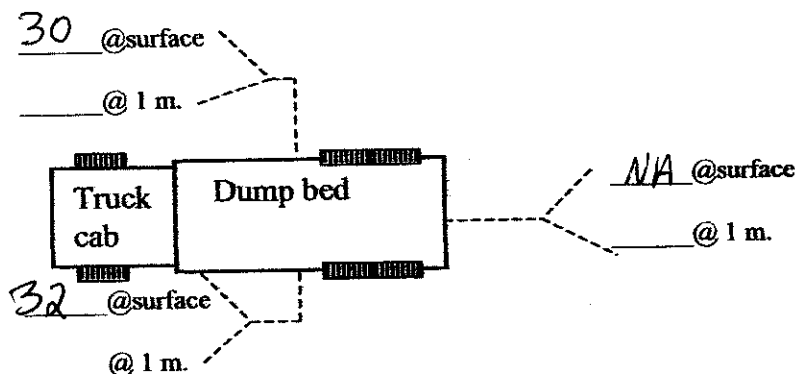
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1505 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

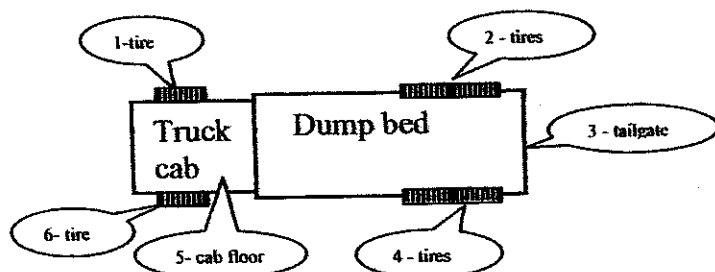
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

003340

76

FOOTHILLS LANDFILL
 8200 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 386260 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 3:25 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 3:25 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645048 | | |

Contract: Y511915

Gross Weight 77,740.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 41,160.00 lb 20.58 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.58 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



[Handwritten signature]

SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



NON-HAZARDOUS WASTE MANIFEST

0645048

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 000603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | Drums | Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature | | Month 8 | Day 12 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Fernando Barba | | | | Signature | | Month 8 | Day 22 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

TRANSPORTER #2

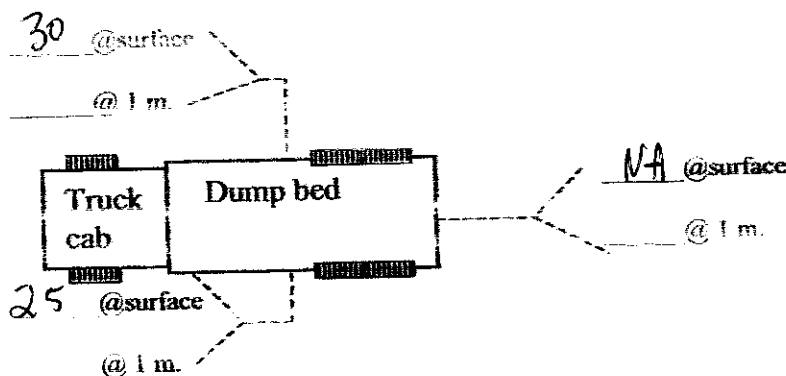
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1512 Surveyed by: C Hicks / J Mattson

Trucking Company: Insure Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10 mrem/hr, survey is complete.)

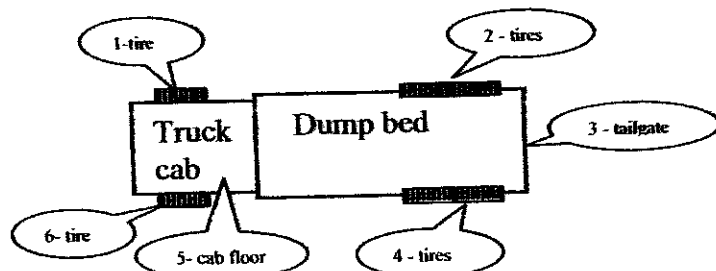
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503846

13

FOOTHILLE LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556266 | 0000 |
| WEIGHMASTER | | |
| R200056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 3:32 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 3:32 pm | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 645047 | | |

Gross Weight 82,760.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 47,060.00 lb 23.53 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.53 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645047

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3998 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 0 Drums 6 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Colares Lopez | | | | Signature [Signature] Month 08 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

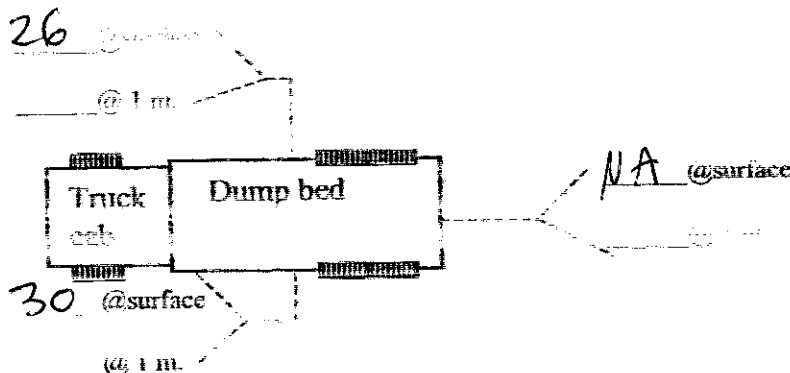
TRANSPORTER #2

COM000633

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1519 Surveyed by: C Hicks / J Hattson
 Trucking Company: XXXX Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Dose rates should be recorded at highest reading for each side

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Ongoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If any of these limits are exceeded, survey is complete.)

Transport Index (TI) Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth

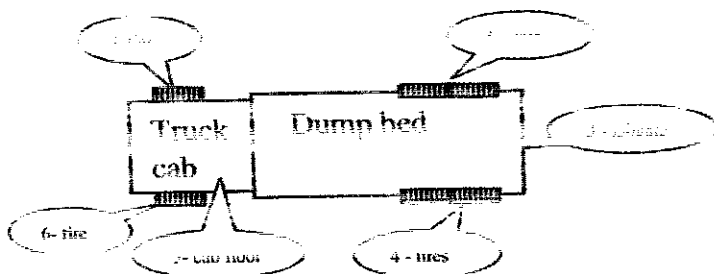
| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (< 0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

TI =

A only:

TI =

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination Limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| dpm/100 cm^2 | dpm/100 cm^2 | dpm/100 cm^2 | dpm/100 cm^2 | dpm/100 cm^2 | dpm/100 cm^2 | dpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments:

| INSTRUMENT DATA | | | |
|-----------------|-----------------------|----------------------|-------------------------|
| Mfg. | Ludlum | Ludlum | Ludlum |
| Model | 10 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144045 | 235249 / PR-22/111 | 235249 / PR-22/111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg | 18 $\mu\text{rem/hr}$ | 5 $\mu\text{rem/hr}$ | 2.53 $\mu\text{rem/hr}$ |
| Efficiency | NA | 17.6% | 13.7% |
| MDA | NA | 76.2 | 553.6 |

303875 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|-------------------------------------|--|------------------|---------------------|--------------|--|
| SITE 01 | | TICKET 586265 | | GRID 0000 | |
| WEIGHMASTER 8500056 Barbara Jo S | | | | | |
| DATE IN 22 August 2007 | | | TIME IN 3:35 pm | | |
| DATE OUT 22 August 2007 | | | TIME OUT 3:35 pm | | |
| VEHICLE Y511915 | | | ROLL OFF | | |
| REFERENCE 645046 | | ORIGIN | | | |

Gross Weight 81,220.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 43,520.00 lb 21.76 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.76 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0645046

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Grime Trucking #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footwall Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit W/Vol G-Gallons T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

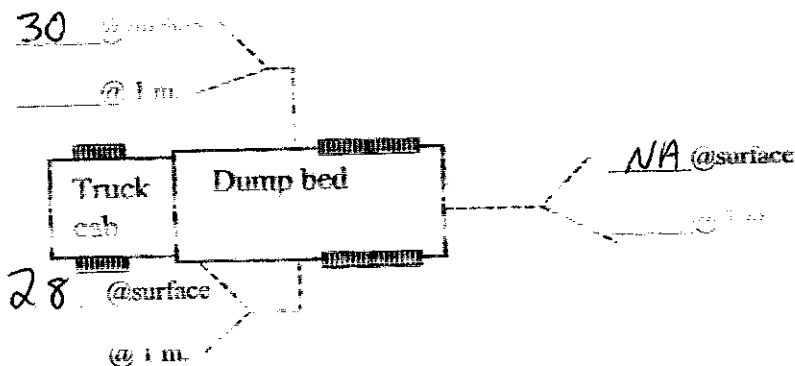
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1524 Surveyed by: C Hicks / J Mattson
 Trucking Company: 1-800-444-4444 Truck license plate no./state: JD001

Gamma Dose Rate Survey (µrem/hr)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

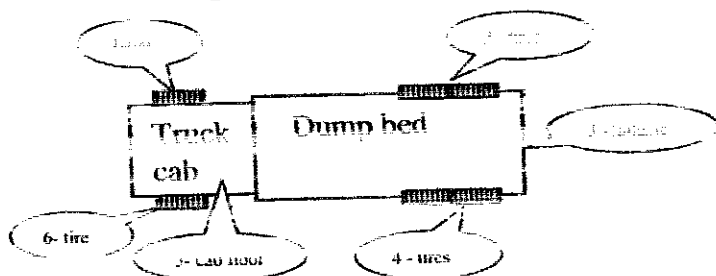
Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If all four are all measurements, survey is complete.)

Transport Index (TI) Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (< 0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

TI -

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination Limits:
 Alpha: 226 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------|------------|------------------|------------|------------|------------|-----------------|------------|
| cpm/100 cm | dpm/100 cm | cpm/100 cm | dpm/100 cm | cpm/100 cm | dpm/100 cm | cpm/100 cm | dpm/100 cm |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 10 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-22/111 | 233249 / PR-22/111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm | 252 cpm |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 26.2 | 553.0 |

003002

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 586272 | 0000 |
| WEIGHMASTER | | |
| 0600056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 22 August 2007 | | 3:40 pm |
| DATE OUT | | TIME OUT |
| 22 August 2007 | | 3:40 pm |
| VEHICLE | | ROLL OFF |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645056 | | |

Contract: Y511915

Gross Weight 76,480.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 40,900.00 lb 20.45 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.45 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0645056

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity 0-Drums 0-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8/22/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jose W Ruiz | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Donna | | Signature | | Month Day Year 8/22/07 | |

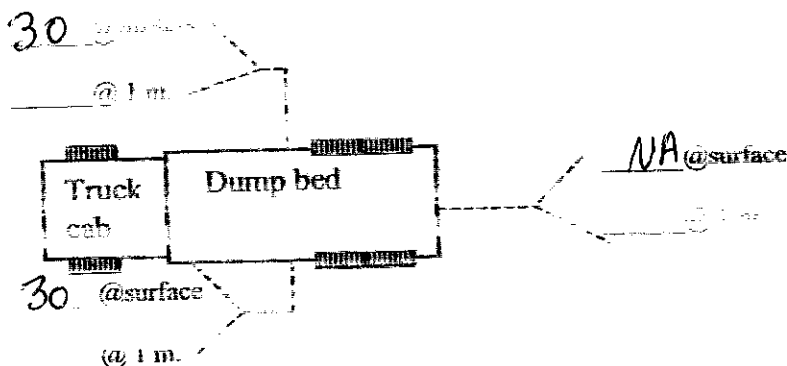
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1532 Surveyed by: C Hicks / J Mattson
 Trucking Company: 1-800-222-2222 Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:
 Dose rates should be recorded at highest reading for each side

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

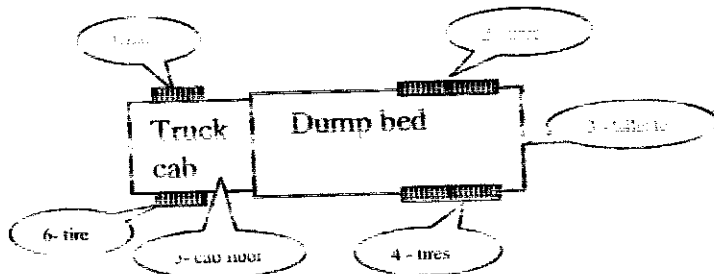
Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If any of the above limits are exceeded, survey is complete.)

Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (< 0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

TI =

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination Limits:
 Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------|-----------------|------------------|------------|------------------|------------|-----------------|------------|
| dpm/100 cm | dpm/100 cm | dpm/100 cm | dpm/100 cm | dpm/100 cm | dpm/100 cm | dpm/100 cm | dpm/100 cm |
| | <u>< 220</u> | | | <u>< 2200</u> | | | |

Comments: _____

| INSTRUMENT DATA | | | | |
|-----------------|------------|--------------------|--------------------|--|
| Mfg. | Ludlum | Ludlum | Ludlum | |
| Model | 10 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144045 | 235249 / PR-22/111 | 235249 / PR-22/111 | |
| Cal Due | 8-14-08 | 8-15-09 | 8-15-09 | |
| Bkg. | 18 µrem/hr | 5 µrem/hr | 5.5 µrem/hr | |
| Efficiency | NA | 11.6% | 13.9% | |
| MDA | NA | 76.2 | 553.0 | |

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|---------------------|--------------|
| SITE 01 | TICKET 566277 | GRID 0000 |
| WEIGHMASTER 2800056 Barbara Jo S | | |
| DATE IN 22 August 2007 | TIME IN 3:50 pm | |
| DATE OUT 22 August 2007 | TIME OUT 3:50 pm | |
| VEHICLE Y511915 | ROLL OFF | |
| REFERENCE 645055 | ORIGIN | |

Gross Weight 84,340.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 47,140.00 lb 23.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

Handwritten signature: KLAS



NON-HAZARDOUS WASTE MANIFEST

0645055

Please print or type

| | | | | | | | | | |
|--|--|--|--|---|--|--------------------|--|-------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303 273-3888 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3888 6. Phone () | | | | | |
| 7. Transporter #1 Company Name Joe Grieder Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Crestline Landfill 8900 Hwy 50 Golden, CO ACCOUNT # 000003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO 107 070902 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit | |
| | | | | No. Type | | Drums Gallons | | Wt/Vol | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] | | | | Month Day Year 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |

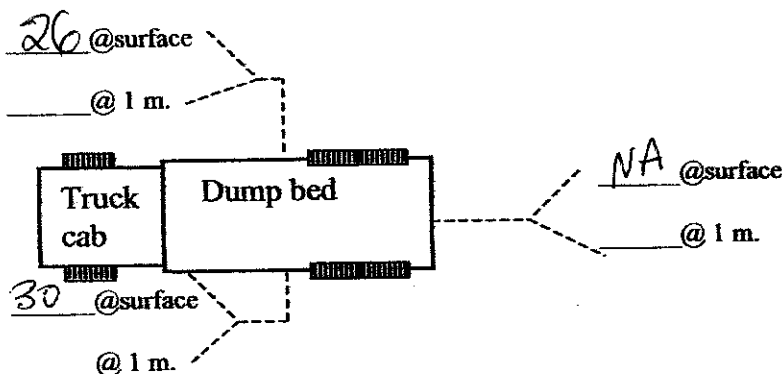
TRANSPORTER #1

QM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1547 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

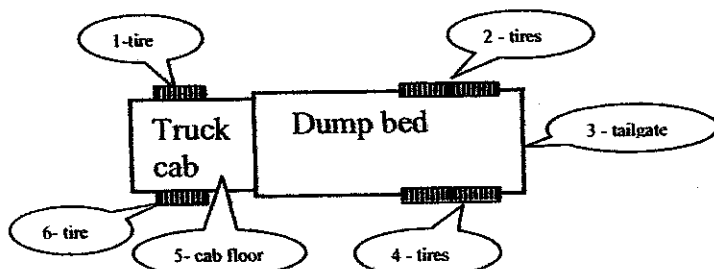
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 6220 | | | | 52200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 26.2 | 553.0 |

503860

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 526285 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 4:05 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 4:05 pm | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 645054 | | |

Gross Weight 80,640.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 46,380.00 lb 23.19 TN

Included -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.19 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

M. L. H.



NON-HAZARDOUS WASTE MANIFEST

4601
0645054

Please print or type.

| | | | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|--------------------|-----------------|---------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | 19. Total Quantity | 20. Unit Wt/Vol | | |
| | | | | | No. | Type | Drums | Gallons | |
| a. Norm Soil | | | CO167 070908 Y511915 | | 18 | 4 | Y-Yards | T-Tons | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | | Signature [Signature] | | Month 8 | Day 22 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name Mike Murray | | | | | Signature [Signature] | | Month 8 | Day 22 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | Month | Day | Year |

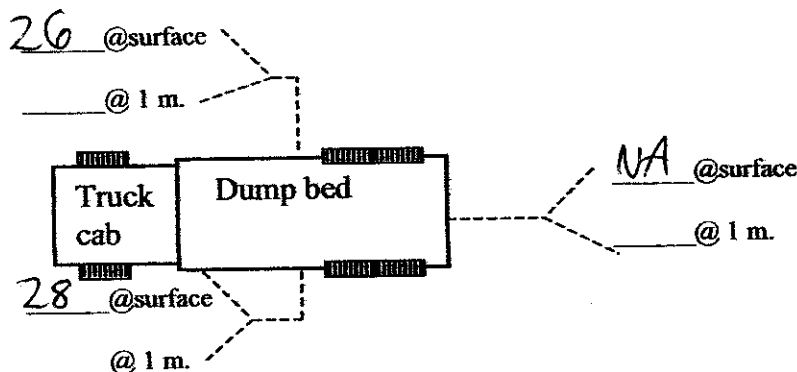
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1553 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

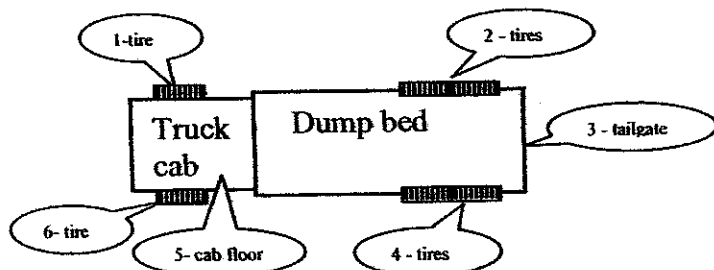
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503858 0

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586288 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 4:10 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 4:10 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645053 | | |

Gross Weight 77,540.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 42,820.00 lb 21.41 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.41 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645053

Please print or type

| | | | | | | | | |
|--|--|---|--|----------------------------|------|--------------------|----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3996 | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Frontier Landfill 4300 Hwy 93 Golden, CO ACCOUNT # 500003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | Drums | Gallons | |
| a. Non Sol | | CO 167470000 0511915 | | 18 | Y | Y-Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 8 | Day 12 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month 08 | Day 22 | Year 07 |
| Printed/Typed Name Chuck Foy | | | | Signature | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

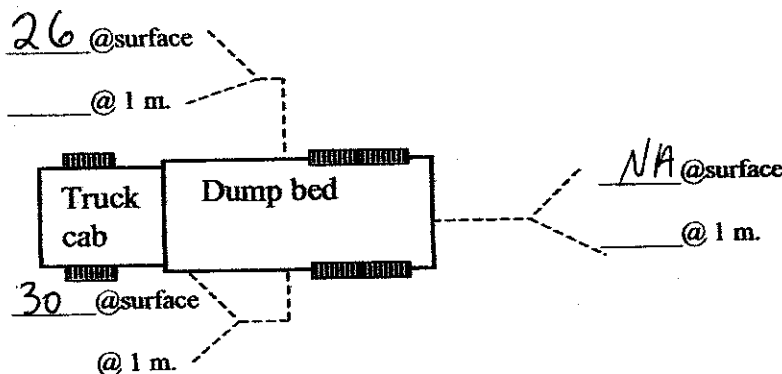
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1600 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

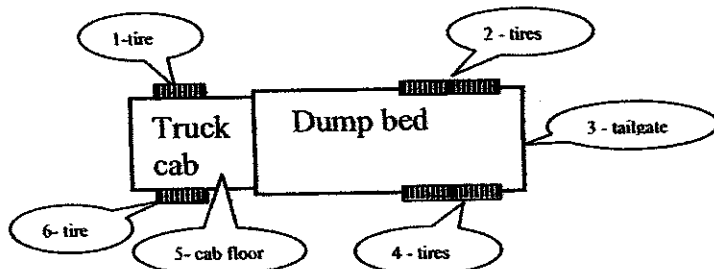
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

533610

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586290 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 4:19 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 4:19 pm | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 645052 | | |

Gross Weight 81,060.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 44,080.00 lb 22.04 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|--------------------|------|-----------|-----|-------|
| 22.04 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL REDCOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE



ALLIED WASTE



NON-HAZARDOUS WASTE MANIFEST

0645052

Please print or type.

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3696 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 986613 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 YS11915 | | 19. Total Quantity D-Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Manuel Ruiz | | Signature | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

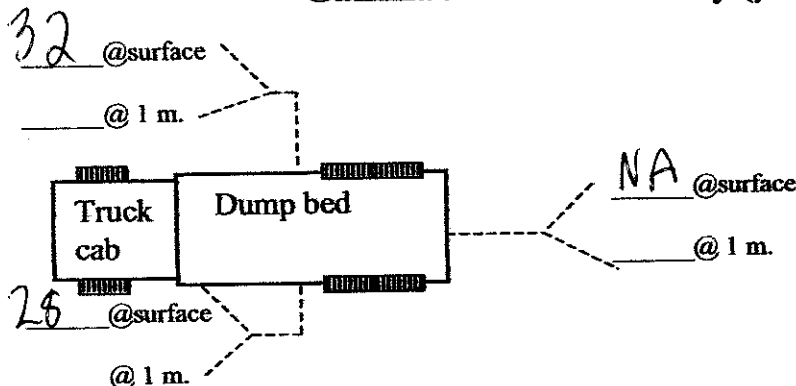
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1608 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

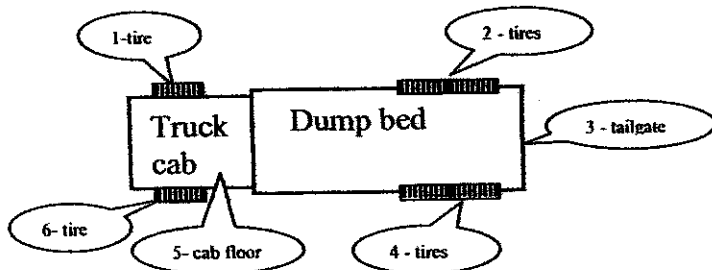
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 72.76.2 | 553.0 |



NON-HAZARDOUS WASTE MANIFEST

0645049

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D Drums Y-Yards 20. Unit Wt/Vol Gallons Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benjamin | | | | Signature [Signature] Month 8 Day 22 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Armando Marquez | | | | Signature [Signature] Month 8 Day 22 Year 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

TRANSPORTER #2

COM000033

Pile B 8/22/07

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | Gross wt |
|-------------|---------|---------|----------|----------------------------|----------|
| Griev 8 | 8/22/07 | 0700 | 0707 | 18 | |
| Griev 23 | 8/22/07 | 0700 | 0715 | 18 | |
| Collazo 13 | 8/22/07 | 0700 | 0720 | 18 | |
| JO 01 | 8/22/07 | 0700 | 0722 | 18 | |
| Marquez 961 | 8/22/07 | 0700 | 0728 | 18 | |
| Ruiz 95 | 8/22/07 | 0700 | 0733 | 18 | |
| Griev 24 | 8/22/07 | 0700 | 0737 | 18 | |
| Griev 12 | 8/22/07 | 0700 | 0741 | 18 | |
| Murray 461 | 8/22/07 | 0700 | 0746 | 18 | |
| Marquez 96 | 8/22/07 | 0700 | 0752 | 18 | |
| JO 04 | 8/22/07 | 0700 | 0755 | 18 | |
| Griev 8 | 8/22/07 | 0800 | 0818 | 18 | |
| Griev 23 | 8/22/07 | 0810 | 0823 | 18 | |
| Collazo 13 | 8/22/07 | 0815 | 0829 | 18 | |
| JO 01 | 8/22/07 | 0840 | 0847 | 18 | |
| Marquez 961 | 8/22/07 | 0840 | 0853 | 18 | 74800 |
| Ruiz 95 | 8/22/07 | 0845 | 0900 | 18 | 72300 |
| Griev 24 | 8/22/07 | 0850 | 0903 | 18 | 78400 |
| Griev 12 | 8/22/07 | 0900 | 0909 | 18 | 78000 |
| Murray 461 | 8/22/07 | 0905 | 0914 | 18 | 79500 |

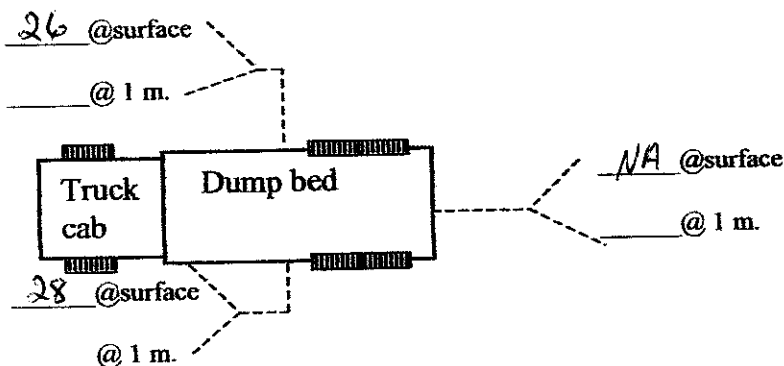
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) | Gross WT |
|-------------|------|---------|----------|----------------------------|----------|
| Marquez 96 | 8/22 | 0910 | 0920 | 18 | 75600 |
| JD 04 | | 0915 | 0923 | | 68100 |
| Grieve 08 | | 0920 | 0930 | | 78300 |
| Grieve 23 | | 0925 | 0934 | | 80,400 |
| Collazo 13 | | 0930 | 0940 | | 78,400 |
| JD 04 01 AM | | 0950 | 1001 | | 75,600 |
| Marquez 961 | | 1010 | 1016 | | 74900 |
| Ruiz 95 | | 1015 | 1021 | | 71200 |
| Grieve 12 | | 1015 | 1025 | | 78720 |
| Grieve 24 | | 1020 | 1032 | | 78500 |
| Murray 461 | | 1030 | 1038 | | 76700 |
| Marquez 96 | | 1030 | 1043 | | 73800 |
| JD 04 | | 1040 | 1047 | | 72600 |
| Grieve 8 | | 1045 | 1053 | | 80,300 |
| Grieve 23 | | 1050 | 1058 | | 80,100 |
| Collazo 13 | | 1055 | 1105 | | 79800 |
| JD 01 | | 1100 | 1113 | | 78300 |
| Grieve 12 | | 1125 | 1135 | | 82800 |
| Marquez 961 | | 1130 | 1139 | | 78020 |
| Ruiz 95 | ↓ | 1135 | 1145 | ↓ | 80200 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0707 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10 mrem/hr, survey is complete.)

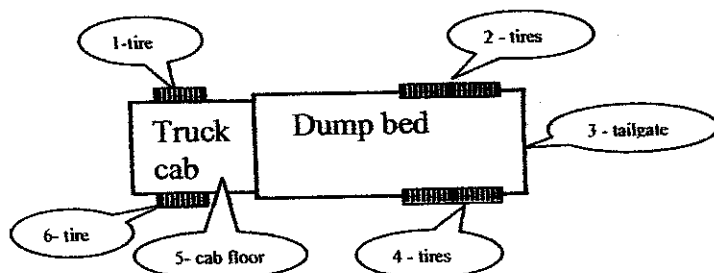
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6% | 13.9% | |
| MDA | NA | 26.2 | 553.0 | |

510530 8

FOOTHILLS LANDFILL
8900 HIGHWAY 90
GOLDEN
CO
80400
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 568907 | GRID 0000 |
| WEIGHMASTER 3500055 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 7:30 am |
| DATE OUT 23 August 2007 | | TIME OUT 7:30 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643131 | ORIGIN | |

Gross Weight 74,900.00 lb
Tare Weight 38,540.00 lb
Net Weight 36,360.00 lb 19.13 TN

Inbound

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.13 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645121

Please print or type

| | | | | | |
|--|--|--------------------------|---|--|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| a. Norm Soil | | | CO L67 070908 Y511915 | | 19. Total Quantity 18 Drums Y-Yards |
| b. | | | | | 20. Unit Gallons T-Tons |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | |
| | | | | Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | |
| | | | | Month 08 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month 6 Day 22 Year 07 | |

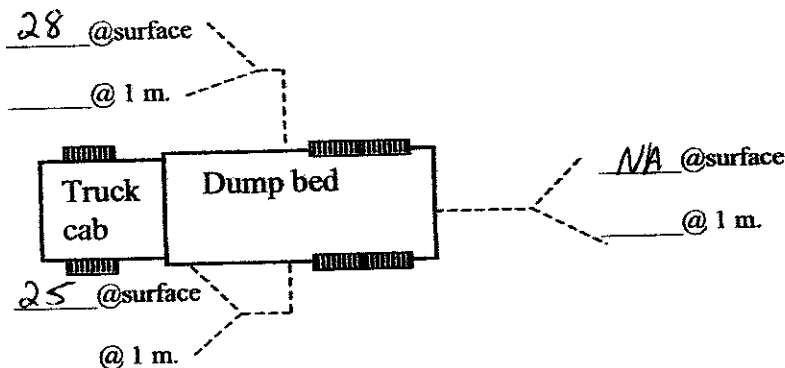
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0715 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

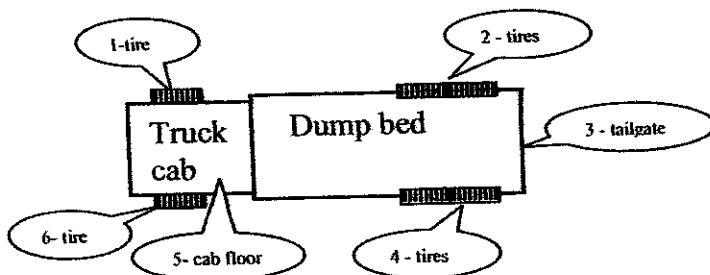
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 26.2 | 553.6 |

533581 23

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 585980 | | 0000 | |
| WEIGHMASTER | | | | | |
| 150003e Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 7:33 am | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 7:35 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 045115 | | | | | |

Gross Weight 78,400.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 43,300.00 lb 21.65 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.65 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



23

NON-HAZARDOUS WASTE MANIFEST

0645118

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960013 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D Drums G Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

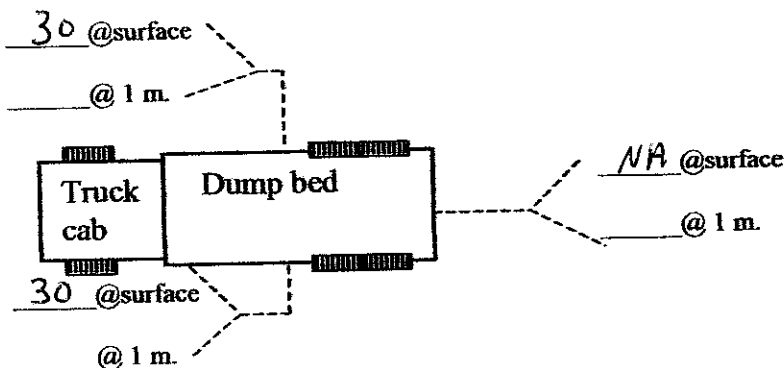
TRANSPORTER #2

COM090033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0720 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

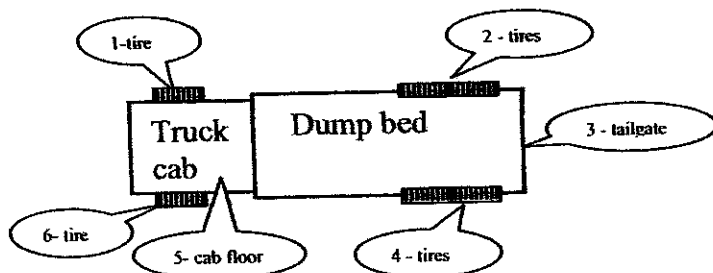
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

595564 13

FOOTHILLS LANDFILL
8900 HIGHWAY 78
GOLDEN
CO
780603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|-----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 385933 | | 0000 | |
| WEIGHMASTER | | | | | |
| 15000056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 25 August 2007 | | | 7:38 am | | |
| DATE OUT | | | TIME OUT | | |
| 28 August 2007 | | | 7:38 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 045117 | | | | | |

Gross Weight 77,730.00 lb
Tare Weight 35,730.00 lb
Net Weight 42,000.00 lb 21.01 TN

Included -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.00 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645117

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. North Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 12 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Colares Lopez | | | | Signature [Signature] Month 08 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month 6 Day 07 Year 07 | |

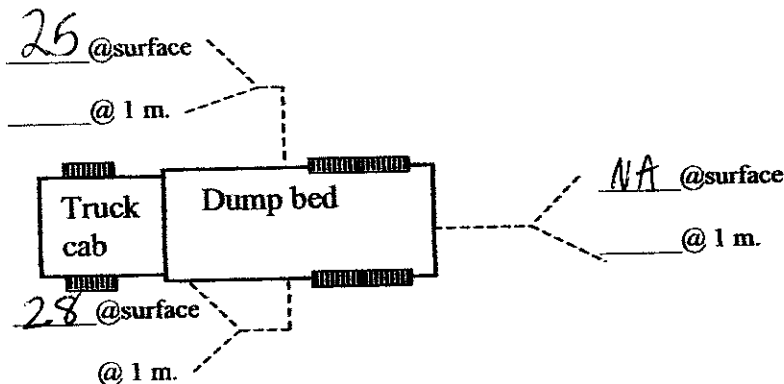
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0722 Surveyed by: C Hicks / J Mattson
 Trucking Company: Conieve Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

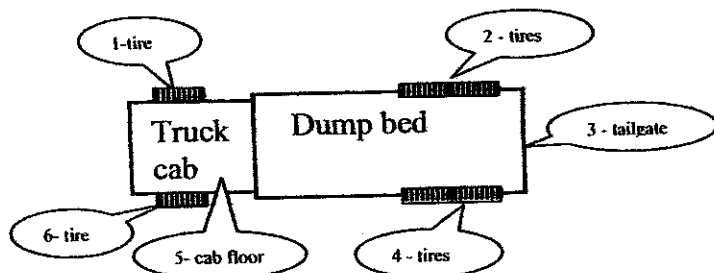
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503538 51

FOOTHILLS LANDFILL
8700 HIGHWAY 76
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YB11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555505 | 0000 |
| WEIGHMASTER | | |
| 1500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 7:47 AM | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 7:47 AM | |
| VEHICLE | ROLL OFF | |
| YB11915 | | |
| REFERENCE | ORIGIN | |
| 0-5116 | | |

Gross Weight 70,740.00 lb
Tare Weight 35,580.00 lb
Net Weight 35,160.00 lb 17.58 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.58 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

01
0645116

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--|---------------------------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity D-Drums Y-Yards | 20. Unit G-Gallons T-Tons | |
| | | | | No. | Type | | | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 15 | ✓ | | | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brachman | | | | Signature | | Month 8 | Day 12 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name JOSE Ruiz | | | | Signature | | Month 6 | Day 11 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

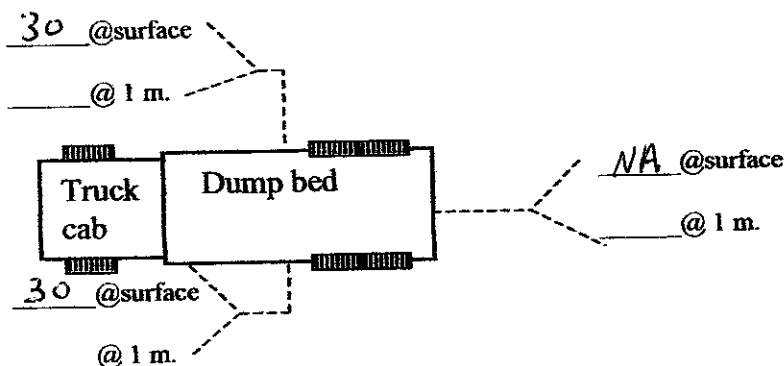
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0728 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greiner Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

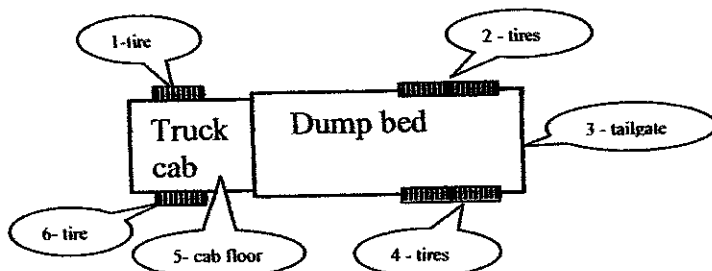
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

309570 541

FOOTHILL LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
950603
COLORADO SCHOOL OF MINES
1530 ILLINOIS ST
GOLDEN CO 80401

Contract: Y311915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 088977 | GRID 0000 |
| WEIGHMASTER AS00054 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 7:55 am |
| DATE OUT 22 August 2007 | | TIME OUT 9:08 am |
| VEHICLE Y311915 | | ROLL OFF |
| REFERENCE 64115 | ORIGIN | |

GS Gross Weight 74,560.00 lb
Tare Weight 34,400.00 lb Inbound -
Net Weight 40,160.00 lb 20.09 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.09 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE A. J.



NON-HAZARDOUS WASTE MANIFEST

0645115

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3998 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 950603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 Y Y-Yards | |
| b. | | | | 0 Drums 0 Gallons | |
| c. | | | | Y-Yards T-Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Schuman | | [Signature] | | 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 8 22 07 | |

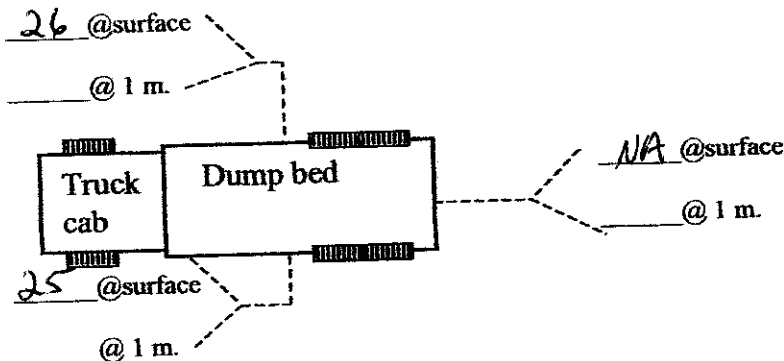
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0733 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: Ruiz 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

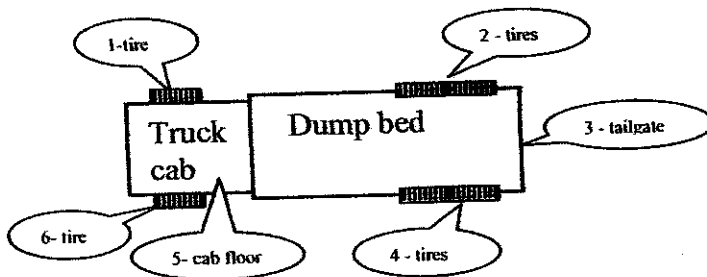
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

503580 43

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 588799 | GRID 0000 |
| WEIGHMASTER 5500056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 7:59 AM |
| DATE OUT 22 August 2007 | | TIME OUT 9:10 AM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643114 | ORIGIN | |

GS Gross Weight 75,060.00 lb
 Tare Weight 36,960.00 lb
 Net Weight 38,100.00 lb 19.05 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.05 | TN | 50-CYR SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

95
0645114

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Norm Soil | | CO L67 070908 Y511915 | | | | 0 Drums | 0 Gallons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 8 | Day 12 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month 10 | Day 22 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

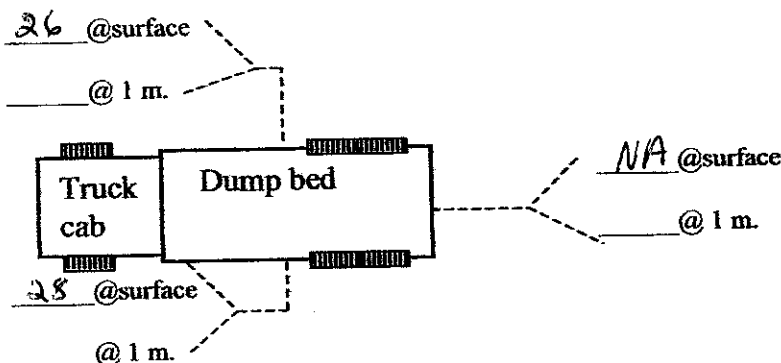
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0737 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

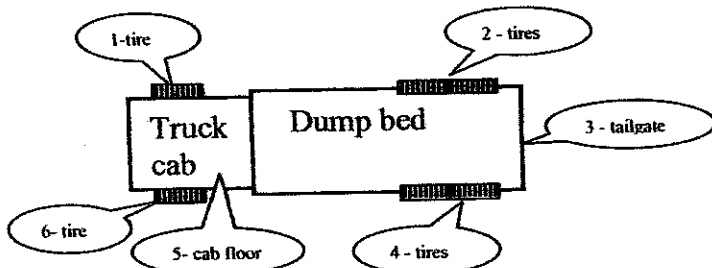
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6% | 13.9% | |
| MDA | NA | 76.2 | 553.0 | |

503574 *24

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|---------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 503574 | | 0000 | |
| WEIGHMASTER | | | | | |
| 500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 8:01 am | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 8:01 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 545113 | | | | | |

Gross Weight 77,920.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 40,720.00 lb 20.36 TN
 Incurred -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.36 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE KERS



NON-HAZARDOUS WASTE MANIFEST

24
0645113

Please print or type

| | | | | | | | | | |
|--|--|---|--|---|--|--------------------|--|-------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3098 | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Mountain Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 400003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | No. | | Type | | 0-Drums 0-Gallons | |
| | | | | 18 | | Y | | 7-Yards 1-Tons | |
| | | | | | | | | | |
| | | | | | | | | | |
| a. Norm Soil | | COLE7 070906 1511315 | | | | | | | |
| b. | | | | | | | | | |
| c. | | | | | | | | | |
| d. | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| S. C. C. Shannon | | | | [Signature] | | | | 08 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| K. Shannon | | | | [Signature] | | | | 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| | | | | | | | | | |

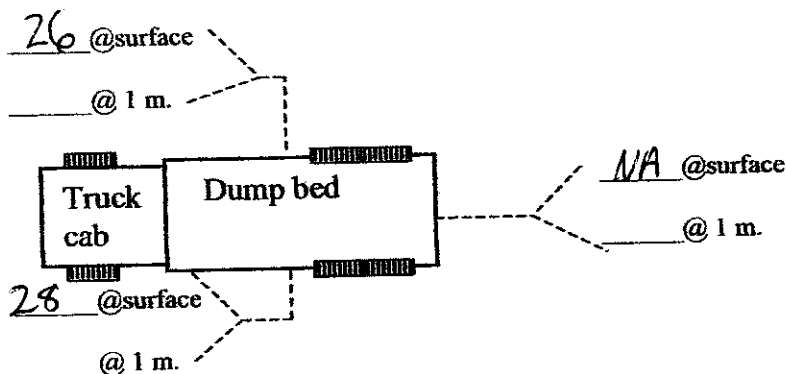
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0741 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

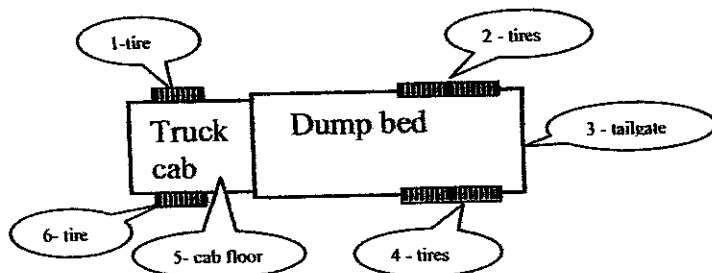
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503573 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|-----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| J1 | | 535794 | | 0000 | |
| WEIGHMASTER | | | | | |
| 15000036 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 8:03 am | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 8:03 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 64-5112 | | | | | |

Gross Weight 75,820.00 lb
 Tare Weight 37,700.00 lb
 net weight 41,150.00 lb 20.57 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

12
0645112

Please print or type

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Garcia Trucking - #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address FootHills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | D-Drums | G-Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benkmen | | | | Signature [Signature] | | Month 8 | Day 22 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Sean J Olson | | | | Signature [Signature] | | Month 8 | Day 22 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

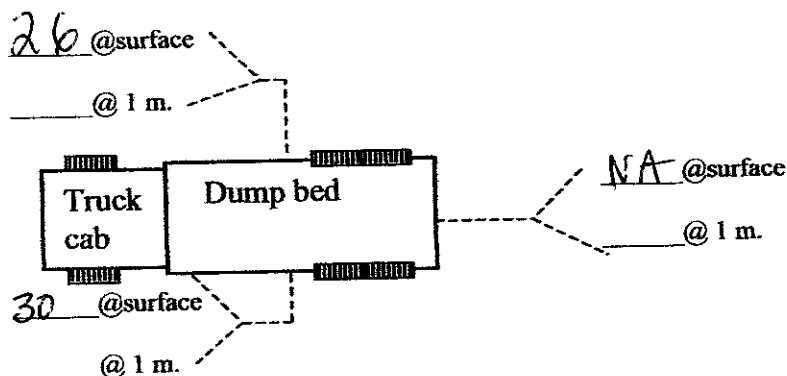
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0746 Surveyed by: C Hicks / J Mattson
 Trucking Company: Conve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

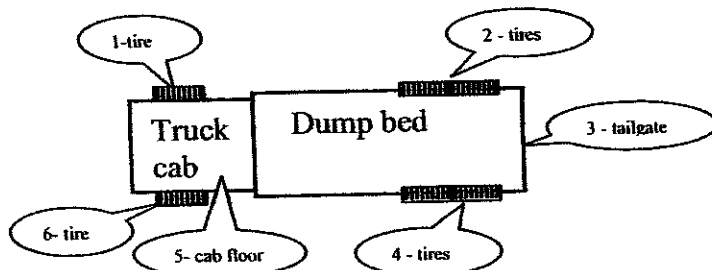
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 26.2 | 553.0 |

503579

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 525793 | | 0306 | |
| WEIGHMASTER | | | | | |
| 2600036 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 8:09 AM | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 8:09 AM | | |
| VEHICLE | | | ROLL OFF | | |
| 7511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 345111 | | | | | |

CS Gross Weight 75,580.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 44,260.00 lb 22.13 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.13 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645111

461

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

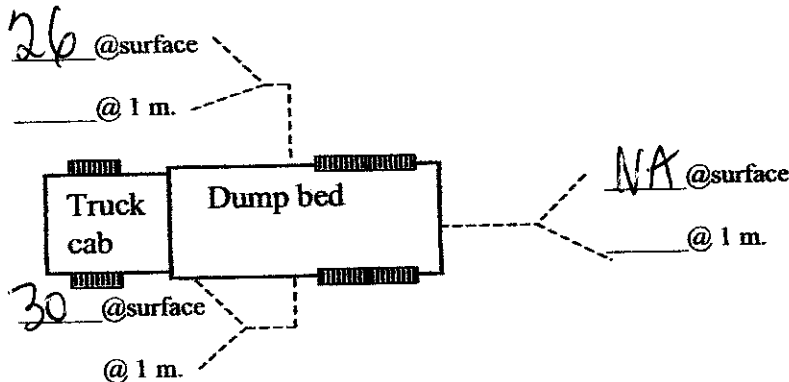
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0752 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

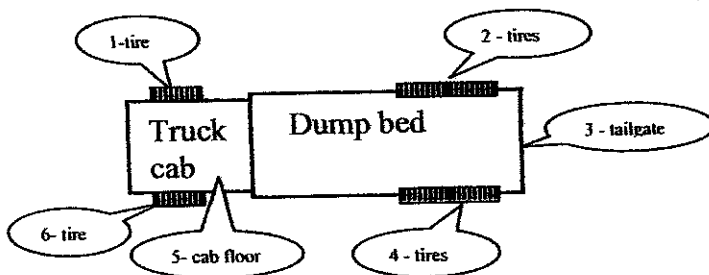
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

503588 7p

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

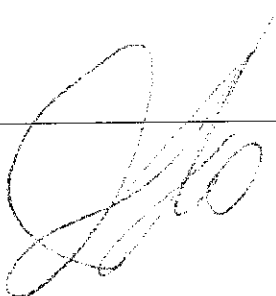
Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 58407 | 0000 |
| WEIGHMASTER | | |
| 6500036 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 8:13 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 6:24 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 6-5110 | | |

Gross Weight 74,340.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 37,760.00 lb 18.68 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.68 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645110

Please print or type.

| | | | | | | | | |
|--|--|--|--|--|------|--------------------|----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8800 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L87 070908 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | Drums | Gallons | |
| | | | | 18 | Y | Y-Yards | T-Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Binkman | | | | Signature | | Month 8 | Day 22 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month 8 | Day 22 | Year 07 |
| Printed/Typed Name Fernando Barrera | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 22 | Year 07 |

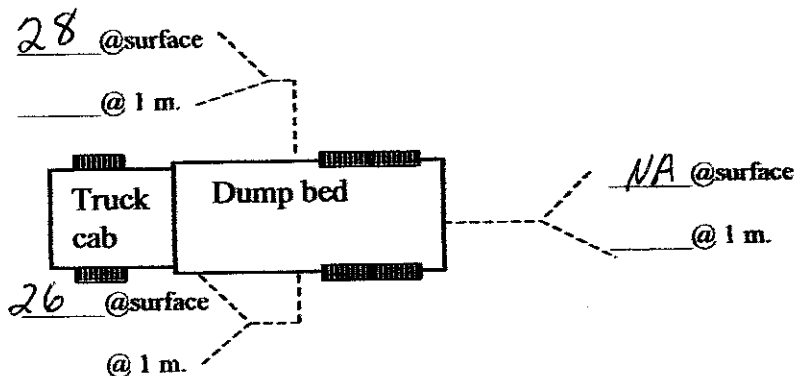
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0755 Surveyed by: C Hicks / J Matheson
 Trucking Company: Onite Truck license plate no. /state: 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

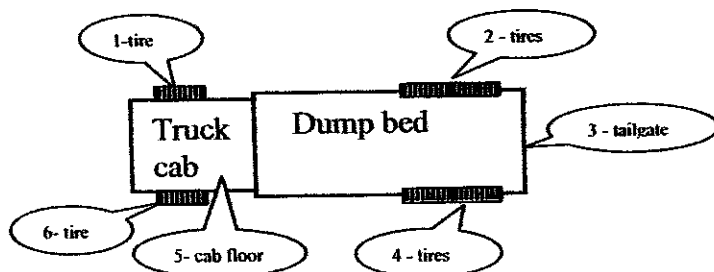
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

500004

FOOTHILL LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | EE6003 | 0000 |
| WEIGHMASTER | | |
| 3500036 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 8:17 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 8:17 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645107 | | |

CG Gross Weight 75,440.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 39,800.00 lb 19.90 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.90 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



8-22-07

SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0645109

04

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 22 Year 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiaho Varsas | | | | Signature [Signature] Month 6 Day 19 Year 01 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month 8 Day 22 Year 01 | |

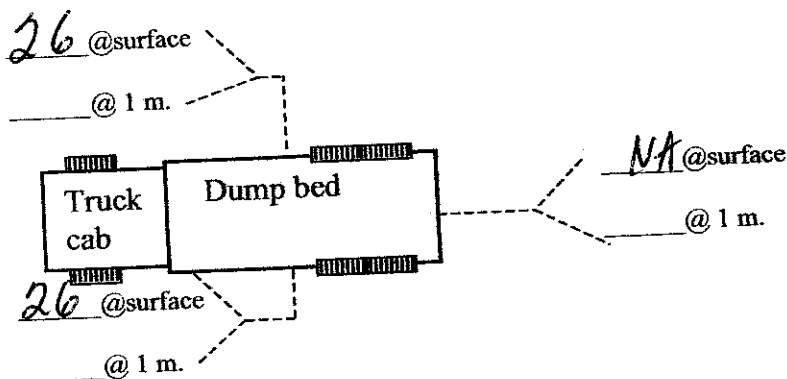
TRANSPORTER #2

COM000039

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0818 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

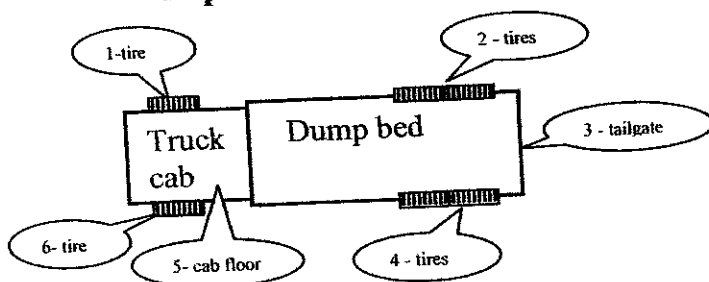
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

ST-RAD-GEN-006

333593 8

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586012 | GRID 0000 |
| WEIGHMASTER 3500056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 8:40 AM |
| DATE OUT 22 August 2007 | | TIME OUT 8:40 AM |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645089 | ORIGIN | |

00 Gross Weight 78,940.00 lb
 Tare Weight 36,540.00 lb Inbound -
 Net Weight 42,400.00 lb 21.20 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.20 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645089

Please print or type

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Football's Landfill 8900 Hwy 92 Golden, CO ACCOUNT # 890033 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | D-Drums | |
| | | | | G-Gallons | |
| a. Norm Soil | | CO L87 070905 1511015 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Simpson | | | | 6 2 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

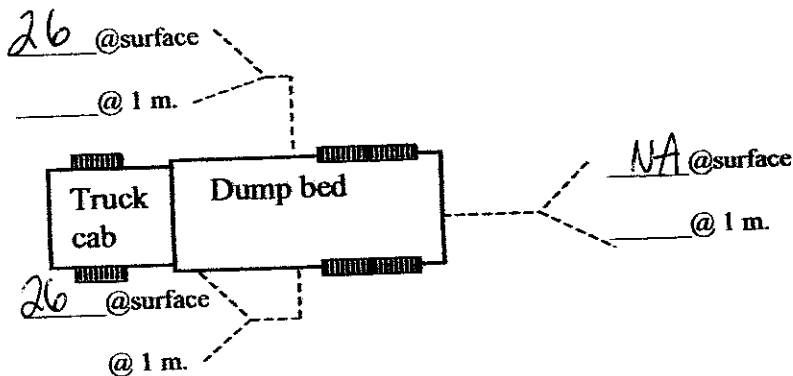
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0823 Surveyed by: C Hicks / J Mattson
 Trucking Company: Conve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

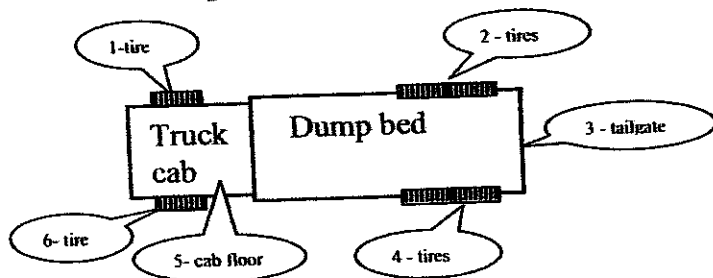
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

ST-RAD-GEN-006

505394

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806608
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 886013 | 0000 |
| WEIGHMASTER | | |
| PS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 8:43 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 8:43 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 645090 | | |

Contract: YE11915

00 Gross Weight 75,780.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 40,680.00 lb 20.34 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.34 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0645090

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Metallurgical Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 800803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] Month 8 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

TRANSPORTER #2

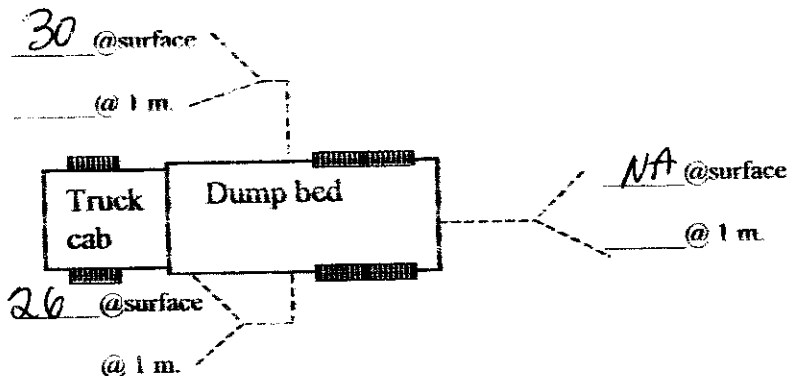
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0829 Surveyed by: C. Hooks / S. Matten

Trucking Company: Greve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

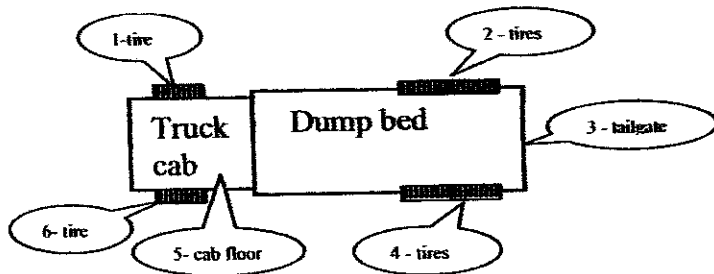
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503598

1.5

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 980605
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586015 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 8:48 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 8:48 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645091 | | |

Gross Weight 77,840.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 42,140.00 lb 21.07 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.07 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645091

Please print or type.

| | | | | | | | | | | | |
|--|--|--|--|--|--|--------------------|--|----------------------------|--|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | | | | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070906 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit | | | |
| | | | | No. | | Type | | Drums | | Gallons | |
| | | | | | | | | Y-Yards | | Tons | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name: Steve Benkman | | | | Signature: [Signature] | | | | Month: 8 Day: 2 Year: 07 | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name: Rafael Colares Lopez | | | | Signature: [Signature] | | | | Month: 08 Day: 22 Year: 07 | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | | | Month: Day: Year: | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name: | | | | Signature: | | | | Month: Day: Year: | | | |

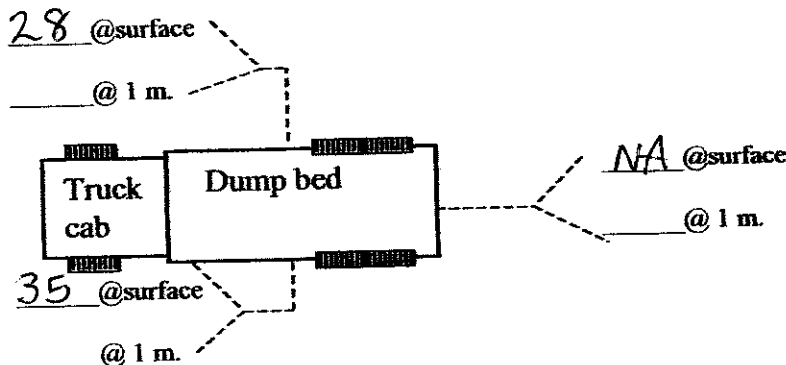
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0847 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greve Truck license plate no. /state: JD01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

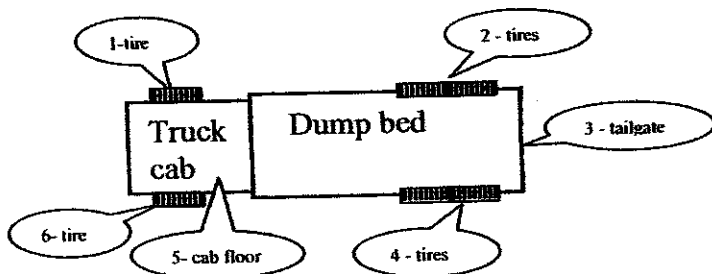
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503607 01

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586026 | 0000 |
| WEIGHMASTER | | |
| 2600056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 9:11 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 9:11 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645092 | | |

Gross Weight 72,340.00 lb
 Tare Weight 35,580.00 lb
 Net Weight 36,760.00 lb 18.38 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.38 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645092

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 360603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 1 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature [Signature] Month 8 Day 2 Year 01 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | | | Signature [Signature] Month 8 Day 2 Year 01 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

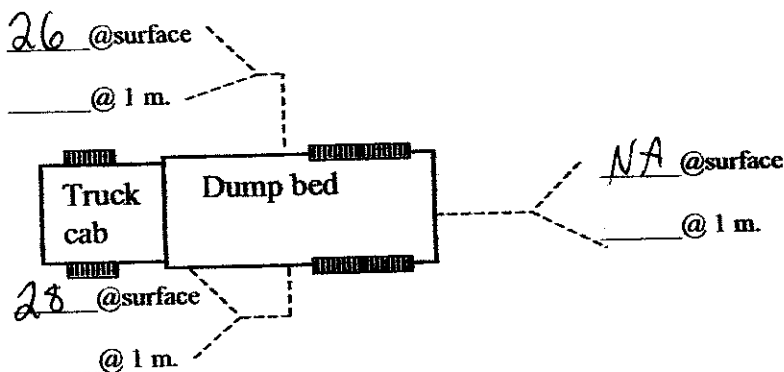
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0853 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greve Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

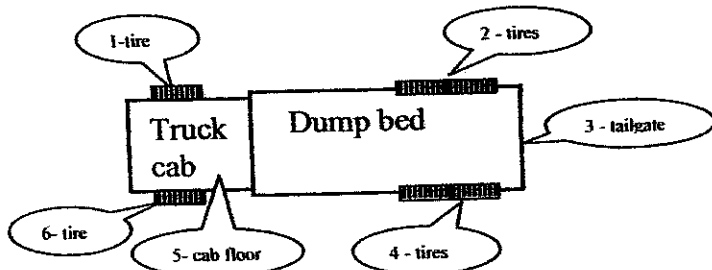
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503609 931

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586028 | GRID 0000 |
| WEIGHMASTER R500056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 9:21 am |
| DATE OUT 22 August 2007 | | TIME OUT 9:21 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645093 | ORIGIN | |

Gross Weight 74,860.00 lb
 Tare Weight 34,400.00 lb Inbound --
 Net Weight 40,460.00 lb 20.23 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.23 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645093

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L07 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards 7-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Berhman | | | | Signature [Signature] Month 8 Day 2 Year 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

TRANSPORTER #2

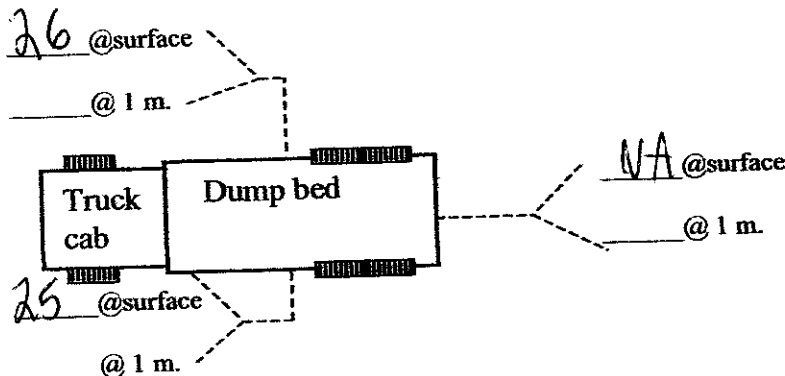
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0900 Surveyed by: C Hicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10 mrem/hr, survey is complete.)

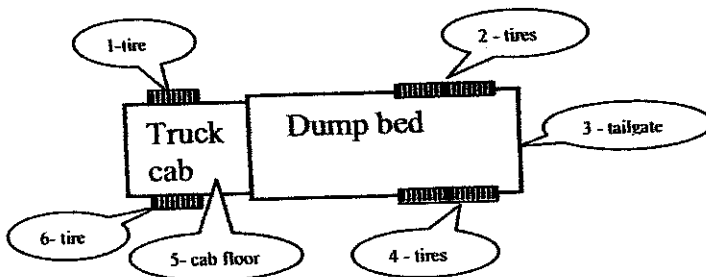
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 5220 | | | | 52200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

500611 1-

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|-----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586030 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8000056 Barber's Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 9:24 am | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 9:24 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645094 | | | | | |

Gross Weight 72,340.00 lb
Tare Weight 36,980.00 lb
Net Weight 35,360.00 lb 17.68 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.68 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



[Handwritten signature]

SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

95
0645094

Please print or type.

| | | | | | | | | |
|--|--|--|---|----------------------------|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | D Drums | 0 Gallons | |
| | | | | | | Y-Yards | 1-Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature | | Month 6 | Day 2 | Year 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 6 | Day 2 | Year 97 |

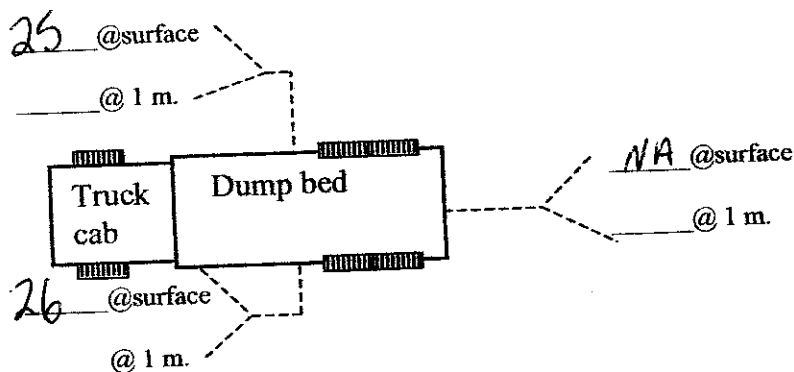
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0903 Surveyed by: C Hicks / J Matheson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

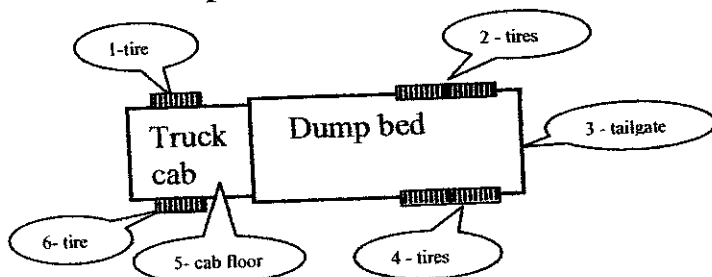
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

ST-RAD-GEN-006

24 503814

FOOTHILLS LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
760603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586033 | | 0000 | |
| WEIGHMASTER | | | | | |
| RG00056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 9:27 AM | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 9:27 AM | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645095 | | | | | |

Gross Weight 78,420.00 lb
Tare Weight 37,200.00 lb
Net Weight 41,220.00 lb 20.61 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.61 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *Kent*



NON-HAZARDOUS WASTE MANIFEST

0645095

Please print or type

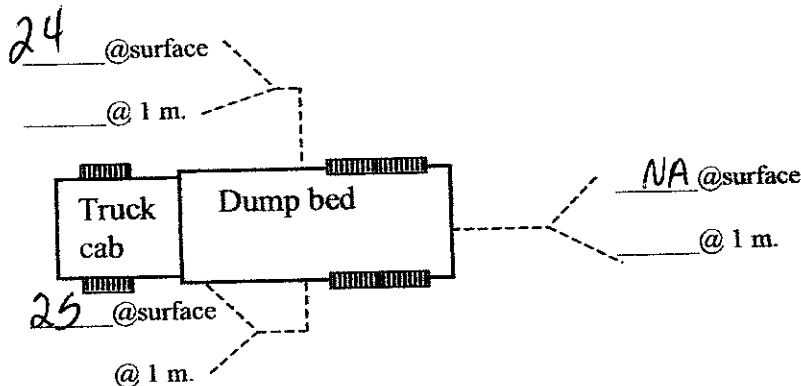
| | | | | | | | | | |
|--|--|---|---|----------------------------|--|--------------------|--|-------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name J D Grievetrucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Central Landfill 8900 Hwy 95 Golden, CO ACCOUNT # 476813 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date 001870700037511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | No. Type | | D-Tons | | G-Dollars | |
| | | | | 18 Y | | Y-Yards | | T-Tons | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Shannon | | | | Signature [Signature] | | | | Month Day Year 6 1 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | | | Month Day Year 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |

TRANSPORTER #1

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0909 Surveyed by: C Hicks / J Mathson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

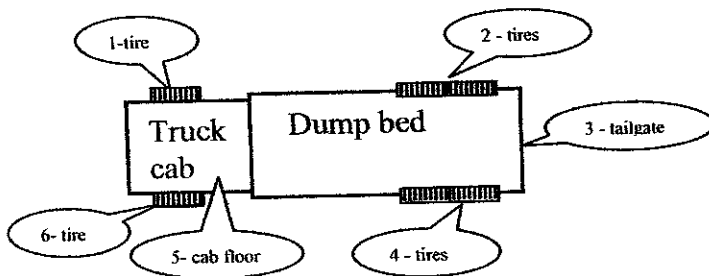
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503815 12

FOOTHILL LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

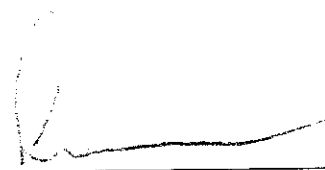
| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586005 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8500056 Barbara Jo C | | | | | |
| DATE IN | | | TIME IN | | |
| 23 August 2007 | | | 9:32 am | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 9:32 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645096 | | | | | |

Gross Weight 75,040.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 40,340.00 lb 20.17 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.17 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645096

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name GRIEC Trucking #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foot Hills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 860603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 18 Drums | |
| b. | | | | 20. Unit Y-Yards | |
| c. | | | | G-Gallons | |
| d. | | | | T-Tons | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 1 2 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name John | | Signature | | Month Day Year 1 2 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Bryan Taylor | | Signature | | Month Day Year 1 2 97 | |

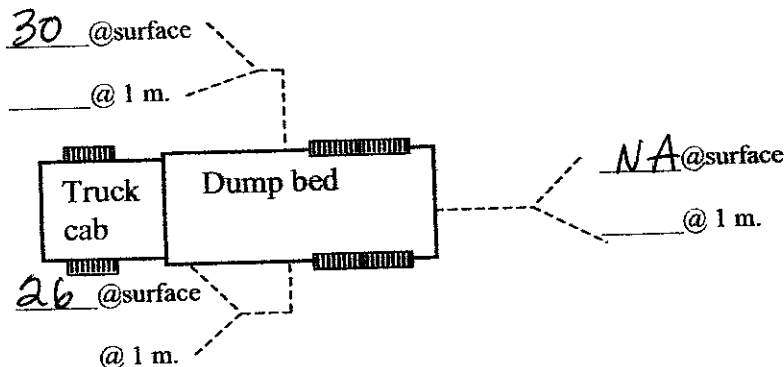
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0914 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

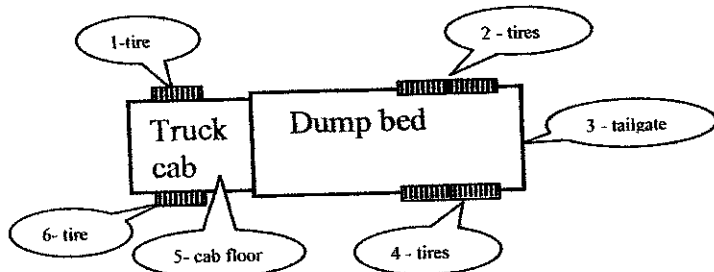
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm | 252 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 26.2 | 553.0 |

503820 43

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586039 | GRID 0000 |
| WEIGHMASTER 9500056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 9:37 am |
| DATE OUT 22 August 2007 | | TIME OUT 9:37 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645097 | ORIGIN | |

Gross Weight 79,540.00 lb
Tare Weight 34,260.00 lb
Net Weight 45,280.00 lb 22.64 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.64 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

M. L. K.



NON-HAZARDOUS WASTE MANIFEST

0645097

461

Please print or type.

| | | | | | | | | | | |
|--|--|--------------------------|--|---|--|----------------------------|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | | | No. | Type | D Drums | G Gallons | |
| a. Norm Soil | | | | CO L67 070908 Y511915 | | 18 | Y | Y-Yards | T-Tons | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | | | Month 8 | Day 22 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] | | | | Month 8 | Day 22 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month | Day | Year |

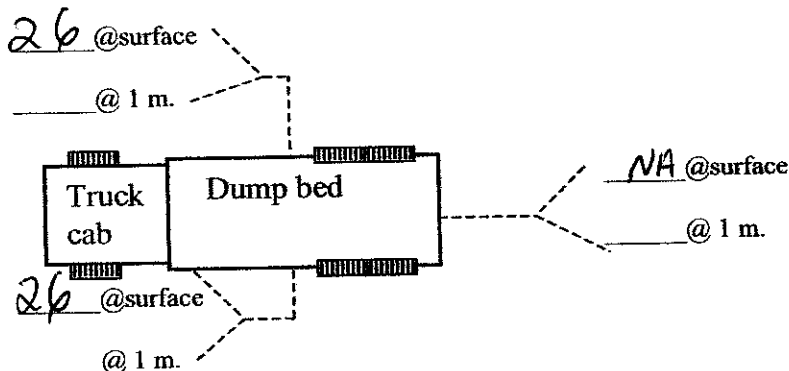
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0920 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10 mrem/hr, survey is complete.)

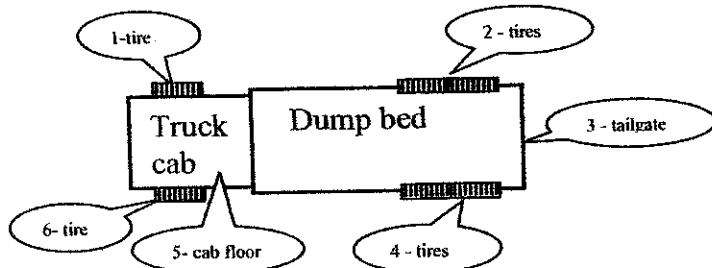
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm X | 252 cpm B |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

513823 76

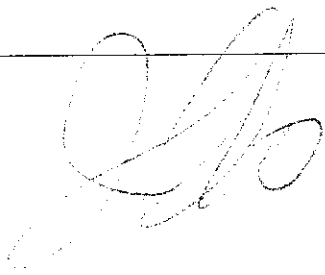
FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586042 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo B | | |
| DATE IN 22 August 2007 | | TIME IN 9:40 am |
| DATE OUT 22 August 2007 | | TIME OUT 9:40 am |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 645096 | ORIGIN | |

Gross Weight 75,620.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 39,040.00 lb 19.52 TN Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.52 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645098

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different from 3) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CC L87 070900 Y511915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit Gallons Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature <i>[Signature]</i> | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Fernando Barre | | Signature <i>[Signature]</i> | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8 22 07 | |

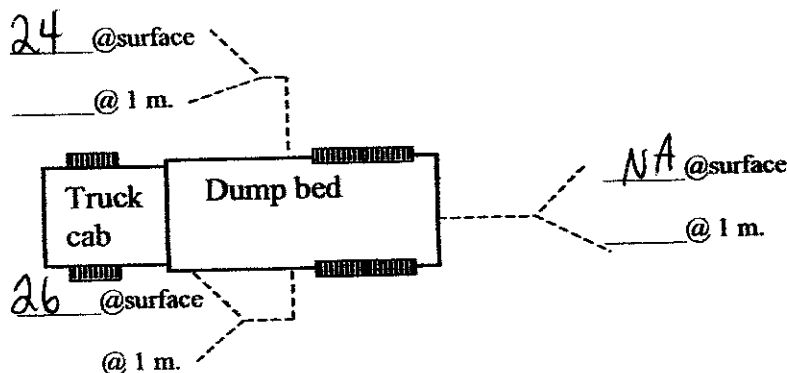
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0923 Surveyed by: C Hicks / J Mattson
 Trucking Company: Onive Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

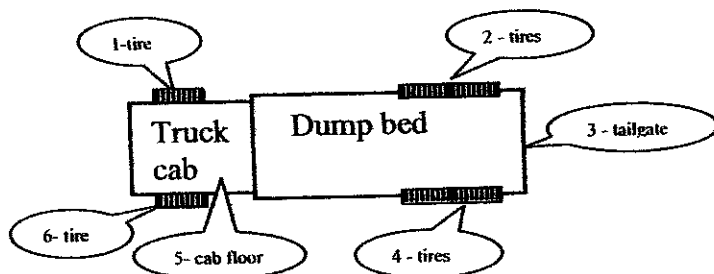
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 26.2 | 553.0 |

503628 4

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806002
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 586047 | GRID 0000 |
| WEIGHMASTER 8500056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 9:46 am |
| DATE OUT 22 August 2007 | | TIME OUT 9:46 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645099 | ORIGIN | |

Gross Weight 68,100.00 lb
 Tare Weight 35,640.00 lb Inbound --
 Net Weight 32,460.00 lb 16.23 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 16.23 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature] 8-22-07



NON-HAZARDOUS WASTE MANIFEST

0645099

04

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3988 | |
| 4. Phone () 303-273-3988 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2900 Hwy 93 Golden, CO ACCOUNT # 930803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons 1 Yards 0 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkron | | | | Signature [Signature] Month 8 Day 9 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

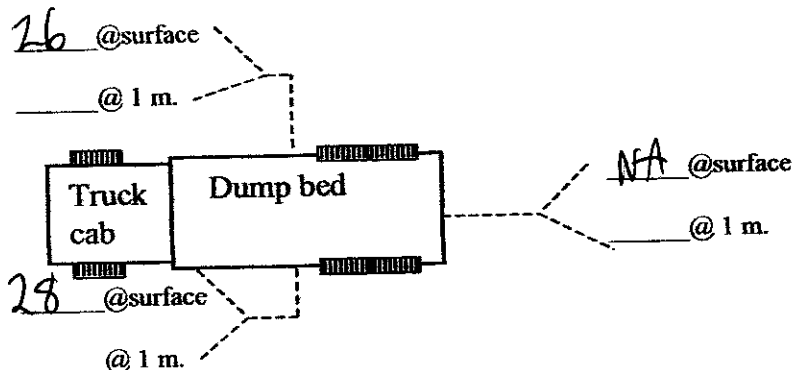
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0930 Surveyed by: C Hicks / J Matheson
 Trucking Company: Greve Truck license plate no. /state: 08

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

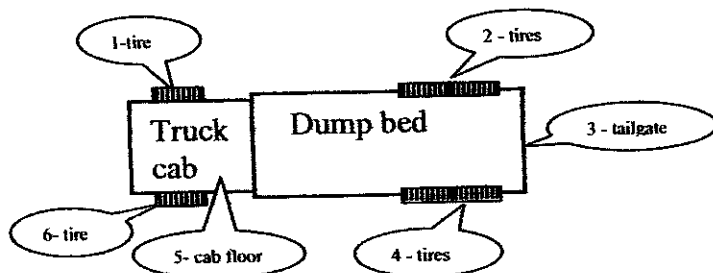
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 4220 | | | | 4220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

503633 7

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586052 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 9:53 AM | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 7:53 AM | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645100 | | |

Contract: Y511915

Gross Weight 78,320.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 41,780.00 lb 20.89 TM

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.89 | TM | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0645100

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 18 Y-Yards | |
| b. | | | | 20. Unit Y-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | | | Signature [Signature] Month 7 Day 2 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

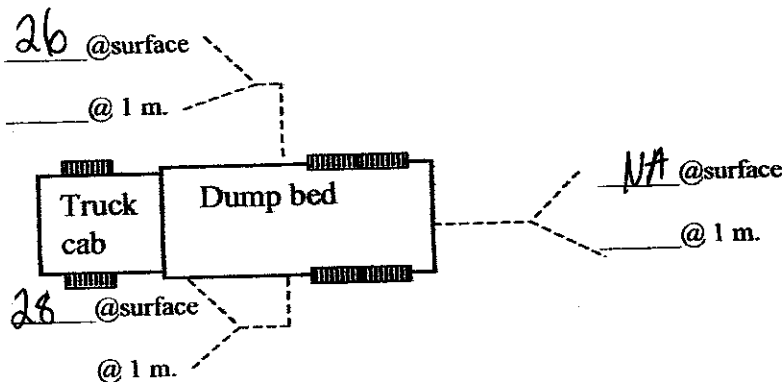
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0934 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

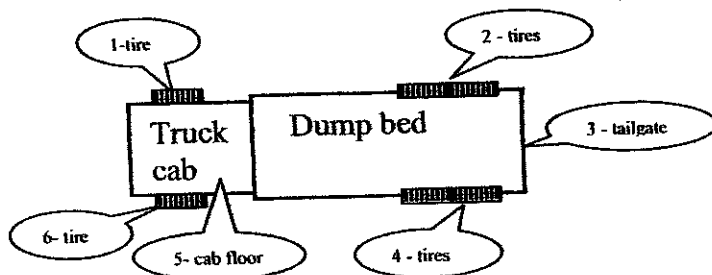
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2220 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

300656 23

FOOTHILL LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760608
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586054 | 0000 |
| WEIGHMASTER | | |
| 8600056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 9:54 AM | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 9:54 AM | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 645101 | | |

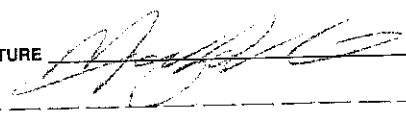
Gross Weight 80,400.00 lb
Tare Weight 35,100.00 lb
Net Weight 45,300.00 lb 22.65 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.65 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

0645101

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footitt's Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960613 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | COL67 070908 YE11915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | Signature | | Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name D. J. ... | | Signature | | Month Day Year 8 22 07 | |

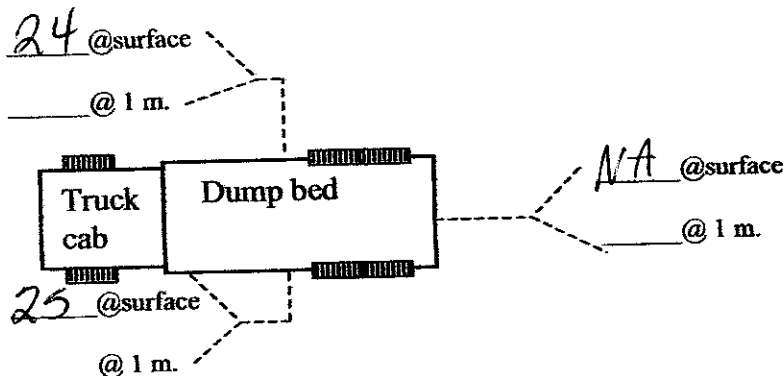
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 0940 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

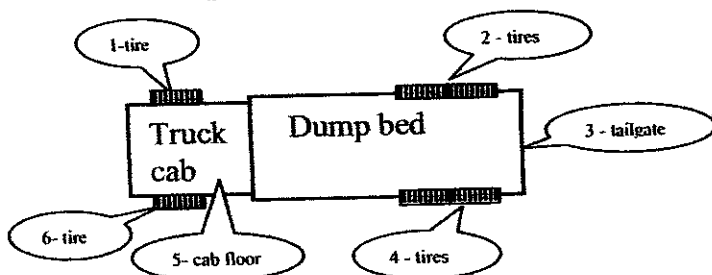
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503033 15

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 556057 | 0000 |
| WEIGHMASTER | | |
| 1500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 10:01 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 10:01 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645102 | | |

Gross Weight 78,440.00 lb
 Tare Weight 35,700.00 lb Inbound -
 Net Weight 42,740.00 lb 21.37 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.37 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645102

Please print or type.

| | | | | | | | | | | | |
|--|--|---|--|---|--|--------------------|--|----------------|--|------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | | 20. Unit | | | |
| | | | | No. Type | | Drums Gallons | | Y-Yards T-Tons | | | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 | | | | | | | |
| b. | | | | | | | | | | | |
| c. | | | | | | | | | | | |
| d. | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| STEVE BERGMAN | | | | | | 8 | | 2 | | 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| Rafael Colazo Lopez | | | | | | 08 | | 28 | | 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | | Day | | Year | |
| | | | | | | | | | | | |

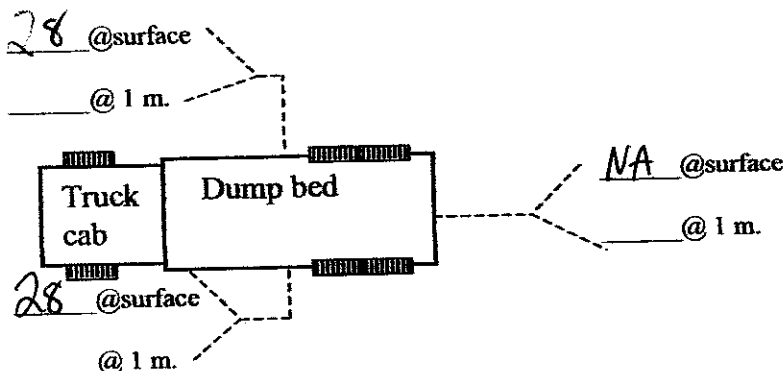
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1001 Surveyed by: C Hicks / J Mathson
 Trucking Company: Onive Truck license plate no. /state: JD04 JD01 WA

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

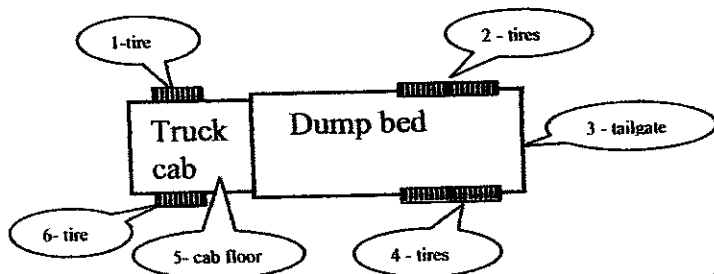
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

509648 ✓

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|--------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 586067 | GRID 0000 |
| WEIGHMASTER 82000056 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 10:20 am |
| DATE OUT 22 August 2007 | | TIME OUT 10:20 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645103 | ORIGIN | |

OO Gross Weight 75,660.00 lb
 Tare Weight 35,580.00 lb Inbound -
 Net Weight 40,080.00 lb 20.04 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.04 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645103

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070918 Y511915 | | 19. Total Quantity D Drums 0 Gallons Y-Yards -Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 27 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W RUIZ | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

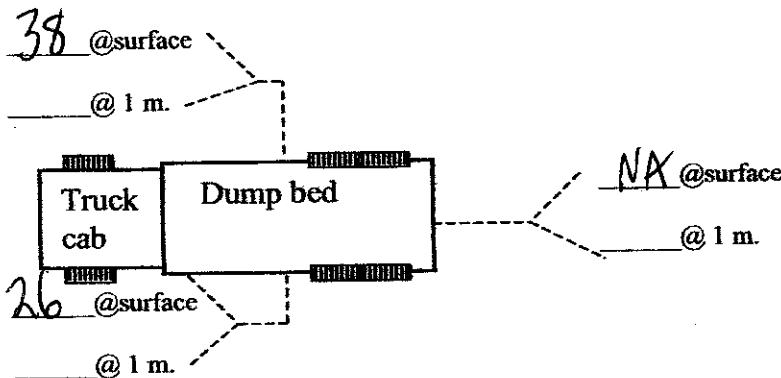
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1016 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

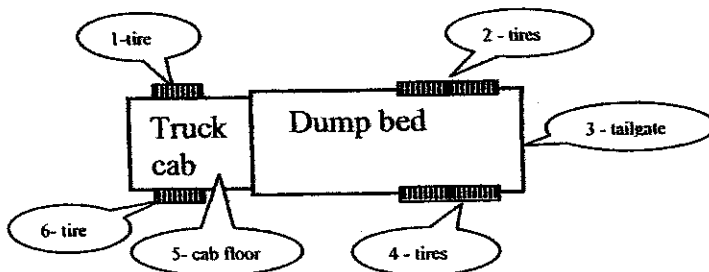
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

503557 461

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | EE6076 | 0000 |
| WEIGHMASTER | | |
| IS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 10:38 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 10:38 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645036 | | |

00 Gross Weight 74,880.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 40,480.00 lb 20.24 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.24 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0645036

761

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Anwaris | | | | 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | 8 22 07 | |

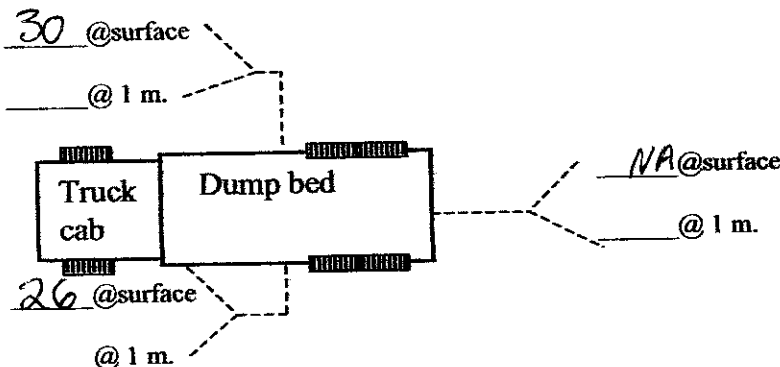
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1021 Surveyed by: C Hicks / J Mattson
 Trucking Company: Onive Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

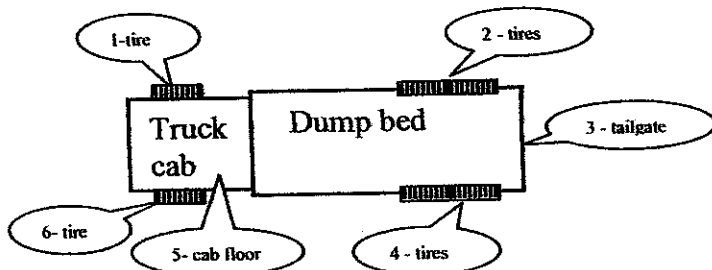
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 586077 | GRID 0000 |
| WEIGHMASTER 1800036 Barbara Jo S | | |
| DATE IN 22 August 2007 | | TIME IN 10:42 am |
| DATE OUT 22 August 2007 | | TIME OUT 10:42 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 645037 | ORIGIN | |

00 Gross Weight 71,240.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 34,260.00 lb 17.13 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.13 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645037

Please print or type.

| | | | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|---------|--------------------|--------|----------------|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 860003 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | | 20. Unit | | |
| | | | | | No. Type | | D-Drums G-Gallons | | Y-Yards T-Tons | | |
| a. Nom Soil | | | CO L67 070908 Y511915 | | | | | | | | |
| b. | | | | | | | | | | | |
| c. | | | | | | | | | | | |
| d. | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Burkman | | | Signature [Signature] | | | Month 8 | | Day 23 | | Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name Muel Ruiz | | | Signature [Signature] | | | Month 8 | | Day 23 | | Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | Month | | Day | | Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | Month | | Day | | Year | |

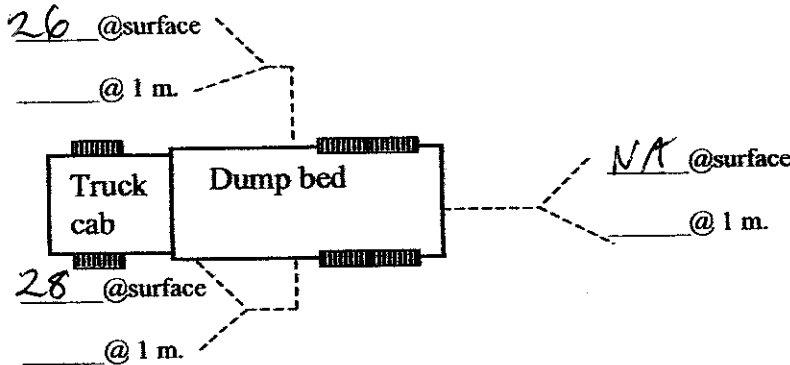
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1025 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

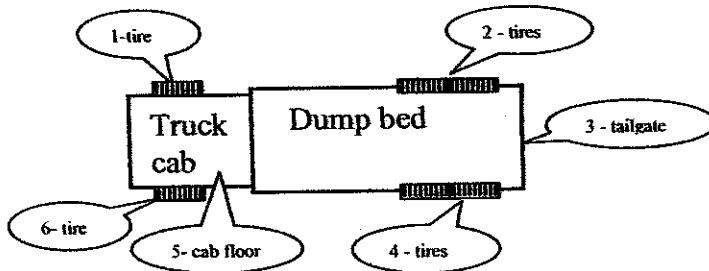
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 26.2 | 553.0 |

503651 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 526050 | 0000 |
| WEIGHMASTER | | |
| BS00056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 10:47 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 10:47 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645085 | | |

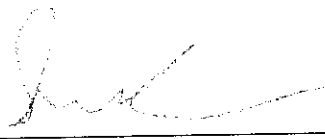
Gross Weight 78,720.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 41,020.00 lb 20.51 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.51 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

12
0645088

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Greene Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity 10 Drums 3 Gallons | |
| b. | | | | 20. Unit Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Buckner | | | | Signature [Signature] Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Jim [Signature] | | | | Signature [Signature] Month Day Year 8 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year 8 22 07 | |

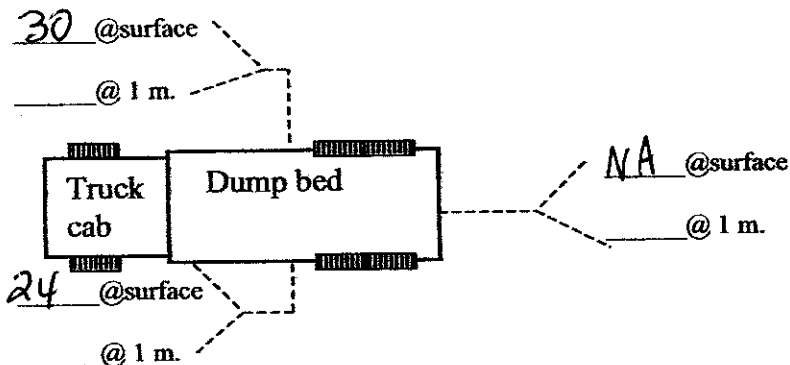
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1032 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 μrem)

10 mrem/hr at 1 m (10,000 μrem)

(If surface is <10mrem/hr, survey is complete.)

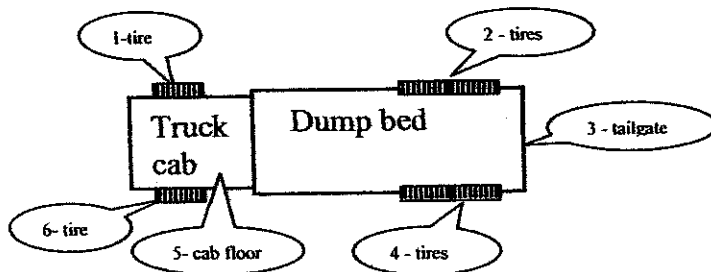
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

47 503833

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 526064 | | 0000 | |
| WEIGHMASTER | | | | | |
| 2500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 22 August 2007 | | | 10:53 am | | |
| DATE OUT | | | TIME OUT | | |
| 22 August 2007 | | | 10:53 am | | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645079 | | | | | |

00 Gross Weight 78,520.00 lb
Tare Weight 37,200.00 lb
Net Weight 41,320.00 lb 20.66 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.66 | TN | 50-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

Handwritten signature

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645079

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Proctor's Landfill 8000 Hwy 80 Golden, CO ACCOUNT # 900403 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L07 070908 Y611315 | | 19. Total Quantity 0 Drums 0 Gallons | |
| b. | | | | 20. Unit Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Joe Grieve | | | | Signature [Signature] Month 8 Day 0 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature [Signature] Month 08 Day 22 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

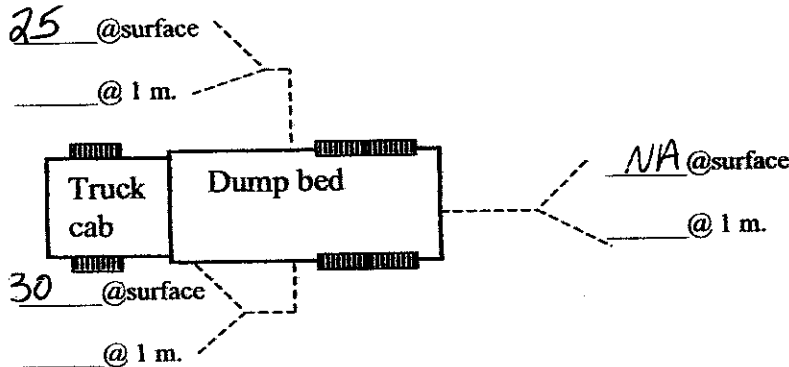
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1038 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

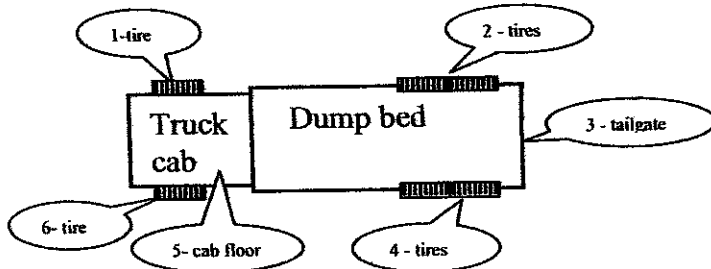
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

353679 461

FOOTHILLS LANDFILL
 6900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586089 | 6000 |
| WEIGHMASTER | | |
| 3500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 11:02 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 11:02 am | |
| VEHICLE | ROLL OFF | |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 645080 | | |

Gross Weight 76,720.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 42,460.00 lb 21.23 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.23 | TN | SW-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *MA*



NON-HAZARDOUS WASTE MANIFEST

0645080

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Nonh Soil | | CO L67 070908 Y511915 | | D-Drums G-Gallons | |
| b. | | | | Y-Yards T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | | | 8 22 07 | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

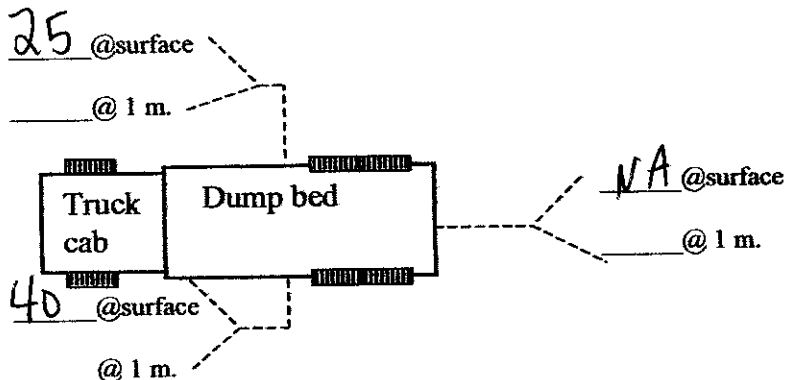
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1043 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

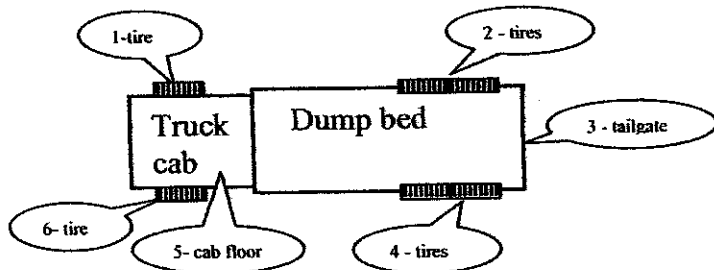
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

583675 70

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|--------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 586092 | | 0000 | |
| WEIGHMASTER | | | | | |
| #200056 Barbare To S | | | | | |
| DATE IN | | | | TIME IN | |
| 22 August 2007 | | | | 11:05 am | |
| DATE OUT | | | | TIME OUT | |
| 22 August 2007 | | | | 11:05 am | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | | ORIGIN | | |
| 045081 | | | | | |

00 Gross Weight 73.520.00 lb
 Tare Weight 36.530.00 lb Inbound -
 Net Weight 37.240.00 lb 18.62 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.62 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LI | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645081

76

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3998 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8800 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L97 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Buckman | | | | 8/22/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Fernando Bona | | | | 8/22/97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| D. J. [unclear] | | | | 8/22/97 | |

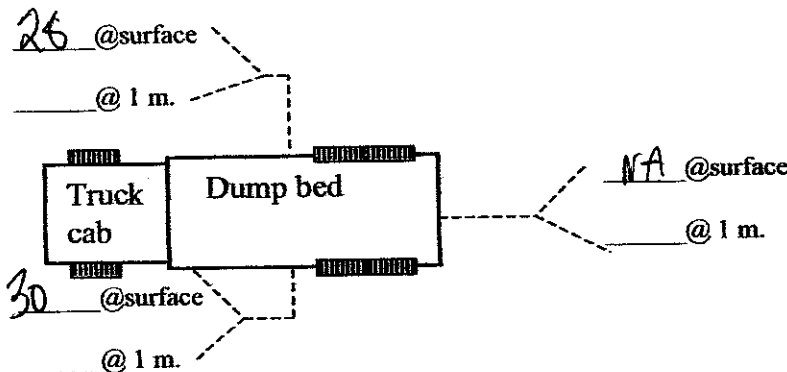
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1047 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

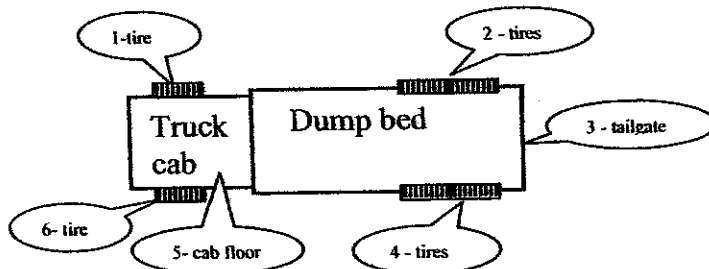
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

5035.3

FOOTYVILLE LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80602
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 586075 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 11:07 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 11:07 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645082 | | |

00 Gross Weight 72,620.00 lb
 Tare Weight 35,620.00 lb
 Net Weight 36,980.00 lb 13.49 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 13.49 | TN | SW-CONT SOIL | | | | |
| 1.00 | L2 | ENVIRONMENTAL FEE | | | | |
| 1.00 | L2 | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature] 8-22-07



NON-HAZARDOUS WASTE MANIFEST

0645082

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity D Drums Y-Yards G Gallons T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Blahm | | Signature | | Month Day Year 8 23 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santiaso Vargas | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

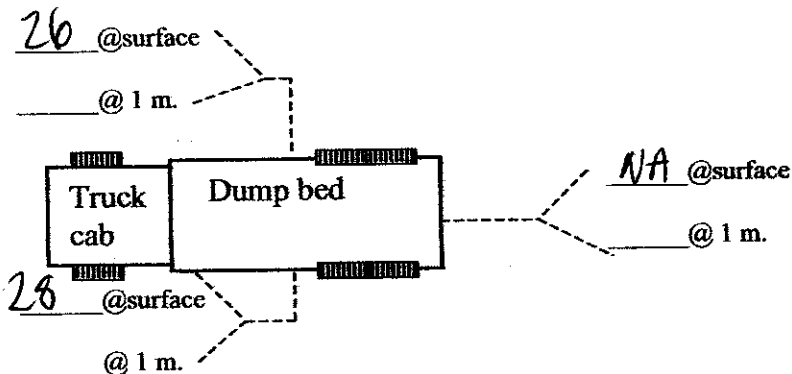
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1053 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

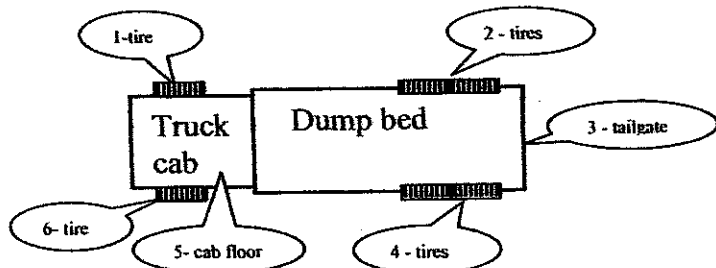
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 526098 | 0000 |
| WEIGHMASTER | | |
| 3500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 11:14 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 11:14 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645053 | | |

Gross Weight 80,280.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 43,740.00 lb 21.87 TN

Inbound

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.87 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645083

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO 80401 ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons | |
| b. | | | | 20. Unit Wt/Vol Gallons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Buchanan | | | | 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 22 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

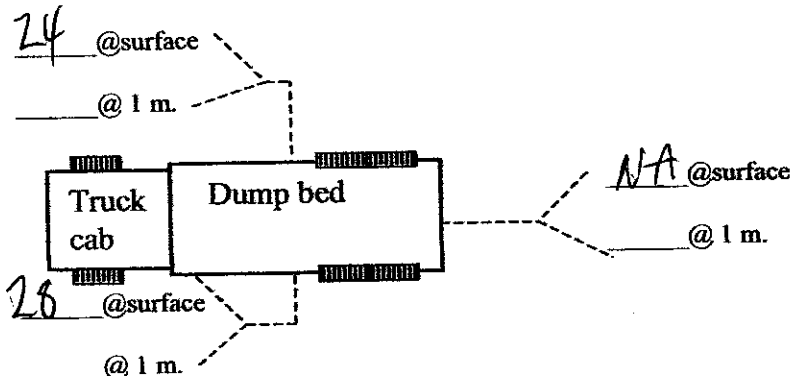
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1058 Surveyed by: C Hicks / J Mattson
 Trucking Company: Greve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

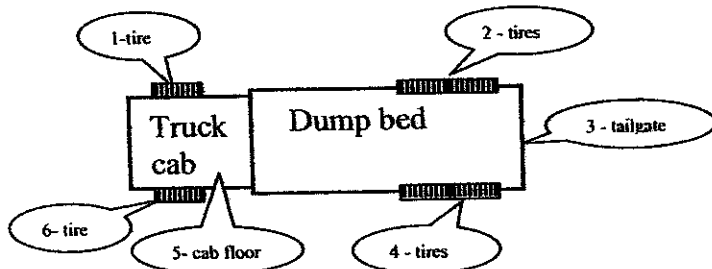
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

00000000 00000000

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract# Y511915

| | | | | | |
|----------------|--|--------|--------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | EB6101 | | 0000 | |
| WEIGHMASTER | | | | | |
| DATE IN | | | | TIME IN | |
| 22 August 2007 | | | | 11:17 am | |
| DATE OUT | | | | TIME OUT | |
| 22 August 2007 | | | | 11:17 am | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | | ORIGIN | | |
| 045004 | | | | | |

Inbound -

00 Gross Weight 80,100.00 lb
 Tare Weight 35,100.00 lb
 Net Weight 45,000.00 lb 22.50 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.50 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645084

Please print or type.

| | | | | | | | | | | | |
|--|--|--|--|--|--|--------------------|--|---------------------------|--|-----------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2000 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070906 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | No. | | Type | | D Drums | | G Gallons | |
| | | | | | | | | Y-Yards | | -Tons | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | | | Month Day Year 8 22 07 | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | | | Month Day Year 8 22 07 | | | |
| Printed/Typed Name MARIL PHELAN | | | | Signature | | | | Month Day Year | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | | | Month Day Year | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | | |

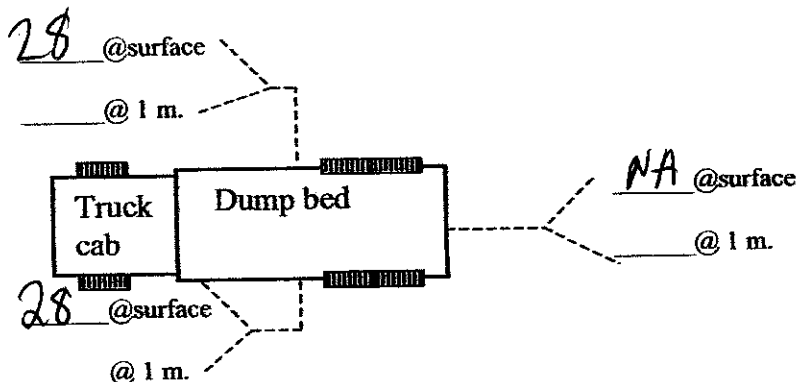
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1105 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

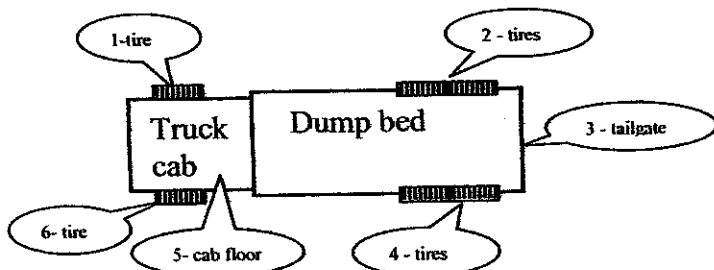
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

0050851

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 558106 | 0000 |
| WEIGHMASTER | | |
| 2500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 11:26 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 11:26 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645085 | | |

OO Gross Weight 79,840.00 lb
 Tare Weight 35,700.00 lb
 Net Weight 44,140.00 lb 22.07 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.07 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LI | FUEL RECOVERY FEE | | | | |



[Handwritten Signature]

SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645085

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 3900 Hwy 93 Golden, CO ACCOUNT # 860603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards 20. Unit G-Gallons T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8/22/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Rafael Collado Lopez | | | | 08/22/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Duke... | | | | 8/22/07 | |

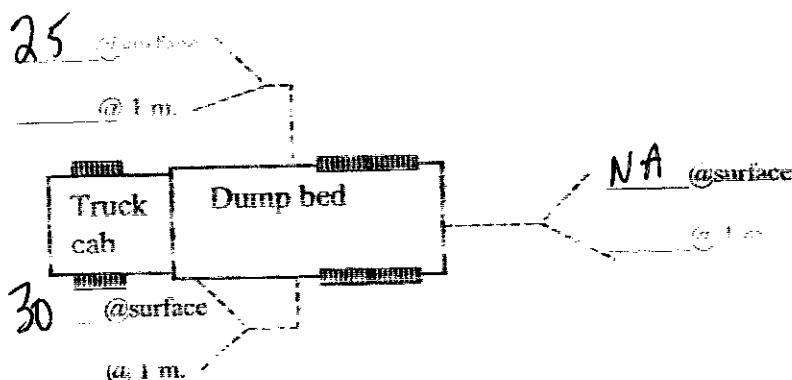
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1113 Surveyed by: C Hicks / J Mattson
 Trucking Company: Longhorn Truck license plate no. /state: J001

Gamma Dose Rate Survey (µrem/hr)



Notes
 Dose rates should be recorded at highest reading for each side

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is < 10 mrem/hr, survey is complete.)

Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth

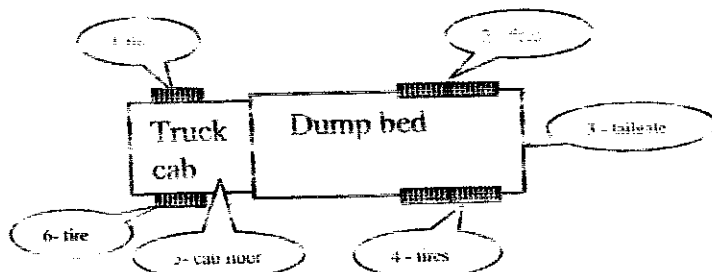
| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (< 0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpiles

A only:

TI =

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination Limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments:

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 10 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-22/111 | 233249 / PR-22/111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm | 2.52 cpm |
| Efficiency | NA | 17.6% | 13.7% |
| MDA | NA | 76.2 | 553.0 |

00000000

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN CO 80401

Contract: Y011915

| | | |
|------------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 836113 | 0000 |
| WEIGHMASTER | | |
| 150000000 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 11:34 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 11:34 am | |
| VEHICLE | ROLL OFF | |
| Y011915 | | |
| REFERENCE | ORIGIN | |
| 045056 | | |

Gross Weight 78.300.00 lb
 Tare Weight 35.580.00 lb
 Net Weight 42.720.00 lb 21.36 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.36 | TN | SW-COMY SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645086

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6900 Hwy 93 Golden, CO ACCOUNT # 960873 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 1 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brickman | | Signature | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #2

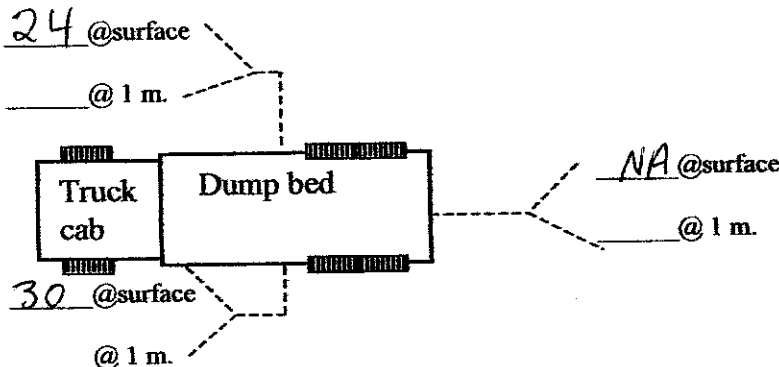
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1135 Surveyed by: C Hicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

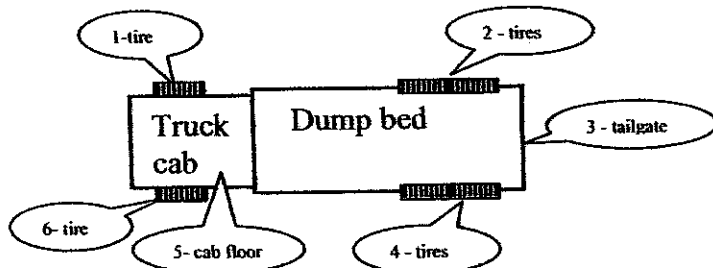
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 76.2 | 553.0 |

000702 12

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
960803
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

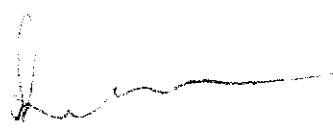
Contract: Y511915

| | | |
|---------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 584120 | 0000 |
| WEIGHMASTER | | |
| 500056 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 11:47 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 11:49 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645067 | | |

GC Gross Weight 82,860.00 lb
Tare Weight 37,700.00 lb
Net Weight 45,160.00 lb 22.55 TN
Incurred -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.55 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE 

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645087

Please print or type.

| | | | | | | | | | |
|--|--|--|--|---|--|--------------------|--|------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3998 | | | | | |
| 7. Transporter #1 Company Name Grove Trucking #13. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | No. | | Type | | D Drums G Gallons | |
| | | | | 18 | | | | Y-Yards T-Tons | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | | | Month Day Year 8 22 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |

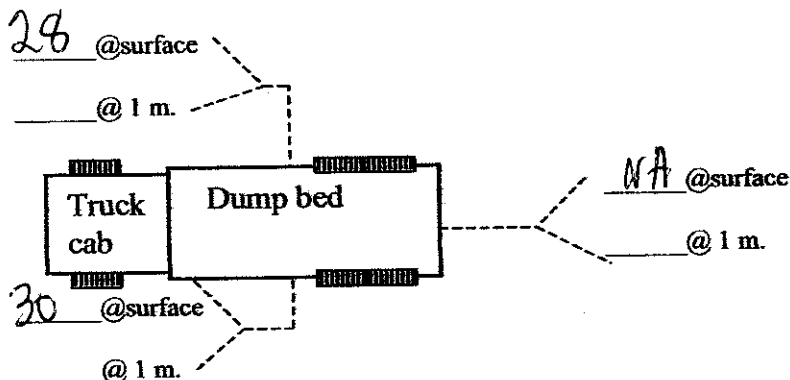
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1139 Surveyed by: C Hicks / J Mattson
 Trucking Company: Grive Truck license plate no. /state: 961

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

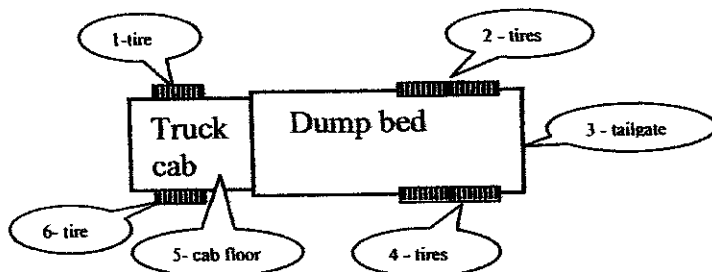
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 $\mu\text{rem/hr}$ | 5 cpm α | 252 cpm β |
| Efficiency | NA | 17.6% | 13.9% |
| MDA | NA | 76.2 | 553.0 |

CONFIDENTIAL 10/19/93

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 584124 | 0000 |
| WEIGHMASTER | | |
| 4500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 11:52 am | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 11:58 am | |
| VEHICLE | ROLL OFF | |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 545104 | | |

| | | | |
|--------------|-----------|----|----------|
| Gross Weight | 78,020.00 | lb | |
| Tare Weight | 34,400.00 | lb | Inbound |
| Net Weight | 43,620.00 | lb | 21.81 TH |

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.81 | TM | 3M-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

NON-HAZARDOUS WASTE MANIFEST

0645104

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960613 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Berkman | | Signature | | Month Day Year 8 2 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Antonio Marquez | | Signature Antonio Marquez | | Month Day Year 8 2 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

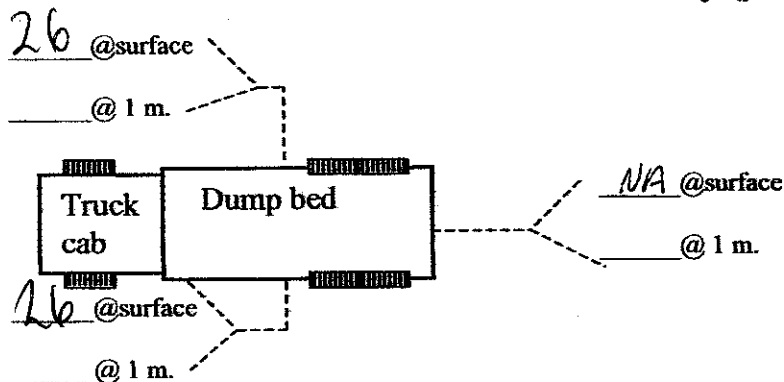
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/22/07 1149 Surveyed by: C Hicks / J Mattson
 Trucking Company: Onire Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

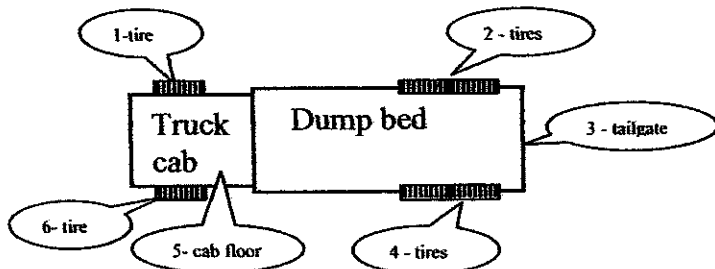
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 5220 | | | | 52200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem/hr | 5 cpm α | 252 cpm β | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 76.2 | 553.0 | |

FOOTHILL LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | Y511915 | 0000 |
| WEIGHMASTER | | |
| 0500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 22 August 2007 | 12:03 pm | |
| DATE OUT | TIME OUT | |
| 22 August 2007 | 12:03 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 045105 | | |

Gross Weight 86,240.00 lb
 Tare Weight 36,980.00 lb Inbound --
 Net Weight 49,260.00 lb 21.43 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.43 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LE | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE _____

NON-HAZARDOUS WASTE MANIFEST

0645105

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D Drums 0 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | Signature | | Month Day Year 8 2 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Manuel Ruiz | | Signature | | Month Day Year 9 2 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 9 2 07 | |

TRANSPORTER #2

COM000033

Pile B p. 2

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|------------|---------|---------|----------|----------------------------|
| Collazo 13 | 8/21/07 | 1035 | 1049 | |
| Murray 461 | 8/21/07 | 1045 | 1056 | |
| JD 01 | 8/21/07 | 1050 | 1106 | |
| JD 04 | 8/21/07 | 1130 | 1139 | |
| Grieve 23 | 8/21/07 | 1130 | 1145 | |
| Grieve 24 | 8/21/07 | 1140 | 1152 | |
| Grieve 12 | 8/21/07 | 1150 | 1158 | |
| Grieve 8 | 8/21/07 | 1204 | 1209 | |
| Collazo 13 | 8/21/07 | 1210 | 1215 | |
| Murray 461 | 8/21/07 | 1215 | 1219 | |
| JD 01 | 8/21/07 | 1220 | 1228 | |
| JD 04 | 8/21/07 | 1305 | 1310 | |
| Grieve 23 | 8/21/07 | 1310 | 1315 | |
| Grieve 24 | 8/21/07 | 1315 | 1320 | |
| Grieve 12 | 8/21/07 | 1320 | 1326 | |
| Grieve 8 | 8/21/07 | 1325 | 1334 | |
| Collazo 13 | 8/21/07 | 1334 | 1340 | |
| Murray 461 | 8/21/07 | 1340 | 1345 | |
| JD 01 | 8/21/07 | 1345 | 1351 | |
| JD 04 | 8/21/07 | 1425 | 1434 | |

Pile B p.3

Truck Departure Record Form

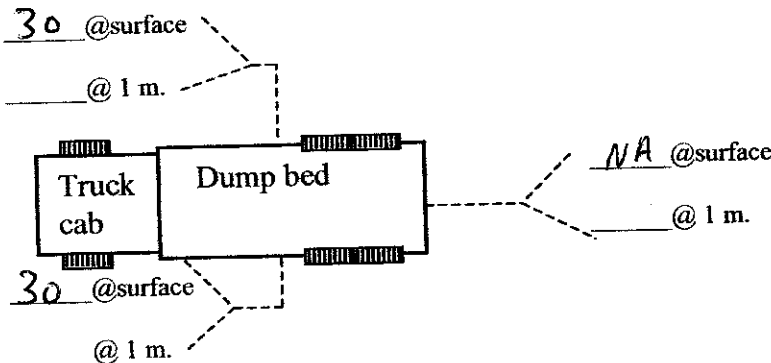
| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|------------|---------|---------|----------|----------------------------|
| Grieve 23 | 8/21/07 | 1428 | 1439 | |
| Grieve 24 | 8/21/07 | 1438 | 1445 | |
| Grieve 12 | 8/21/07 | 1440 | 1450 | |
| Grieve 8 | 8/21/07 | 1450 | 1500 | |
| Collazo 13 | 8/21/07 | 1500 | 1505 | |
| Murray 461 | 8/21/07 | 1500 | 1508 | |
| JD 01 | 8/21/07 | 1505 | 1515 | |
| JD 04 | 8/21/07 | 1540 | 1550 | |
| Grieve 24 | 8/21/07 | 1540 | 1555 | |
| CWA | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

49 loads 8/21/07

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1049 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

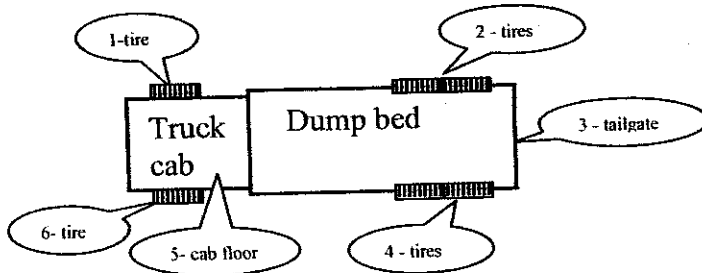
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503308

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

| | | |
|-----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585742 | 0000 |
| WEIGHMASTER | | |
| RSC00056 Barbera Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 11:09 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 11:09 am | |
| VEHICLE | ROLL OFF | |
| VE11915 | | |
| REFERENCE | ORIGIN | |
| 645137 | | |

Contract: VE11915

Gross Weight 82,100.00 lb
Tare Weight 35,700.00 lb
Net Weight 46,400.00 lb 22.20 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.20 | TN | SO-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645139

Please print or type.

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | |
|--|------|--------------------------|---|--|--|-----|------|--------------------|-----------------|--|--|---------|-----------|--|--|---------|--------|--|----|--|--|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 6. Phone () | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8500 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | |
| a. Norm Soil | | | CO L67 070908 Y511915 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>D Drums</td> <td>G Gallons</td> </tr> <tr> <td></td> <td></td> <td>Y-Yards</td> <td>T-Tons</td> </tr> <tr> <td></td> <td>18</td> <td></td> <td></td> </tr> </table> | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | D Drums | G Gallons | | | Y-Yards | T-Tons | | 18 | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | |
| | | D Drums | G Gallons | | | | | | | | | | | | | | | | | | |
| | | Y-Yards | T-Tons | | | | | | | | | | | | | | | | | | |
| | 18 | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name Steve Brichman | | | Signature | | Month Day Year 6/2/07 | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | Signature | | Month Day Year 08/21/07 | | | | | | | | | | | | | | | | |
| Printed/Typed Name Rafael Collazo Lopez | | | Signature | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | Signature | | Month Day Year | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year | | | | | | | | | | | | | | | | |

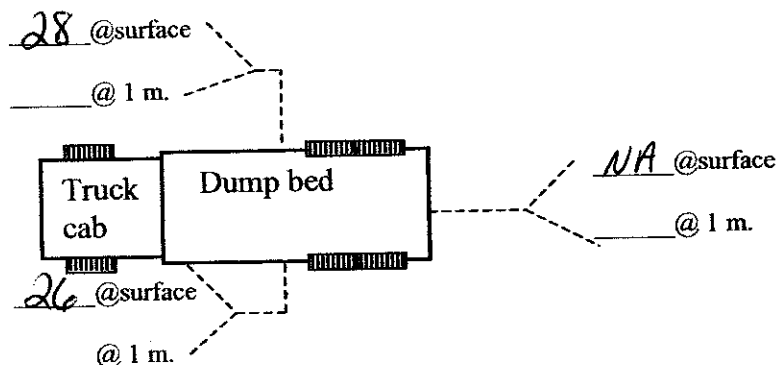
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1056 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

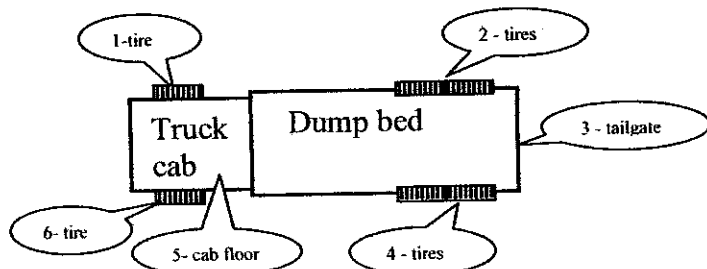
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

003310 70/

FOOTHILLS LANDFILL
2700 HIGHWAY 93
GOLDEN
CO
960603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YS11915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | E25746 | | 0000 | |
| WEIGHMASTER | | | | | |
| KG00056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 11:15 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 11:15 am | | |
| VEHICLE | | | ROLL OFF | | |
| YS11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645140 | | | | | |

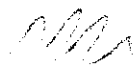
Gross Weight 30,800.00 lb
Tare Weight 34,260.00 lb
Net Weight 46,540.00 lb 23.27 TN

Inboured -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.27 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

0645140

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960913 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums 3 Gallons Y-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benhamer | | | | Signature [Signature] Month Day Year 8 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature [Signature] Month Day Year 8 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year 7 1 07 | |

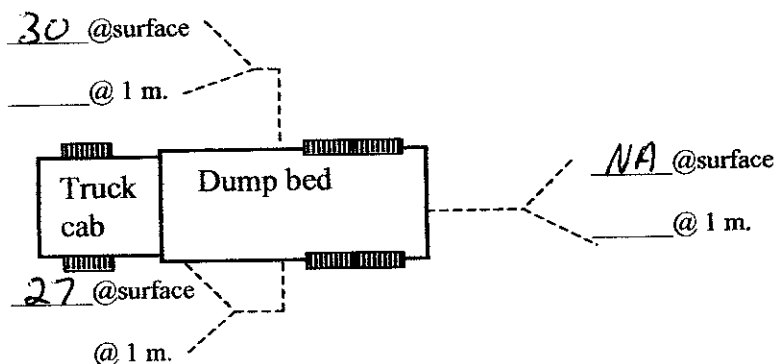
TRANSPORTER #2

CON000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1106 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD 01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

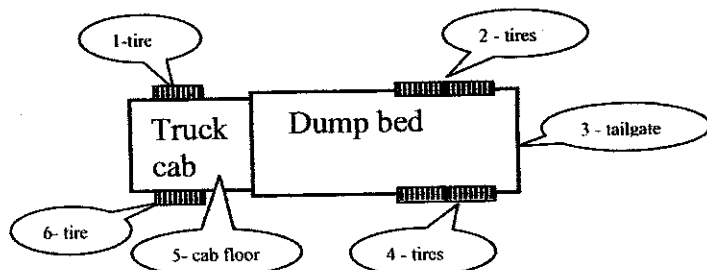
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

J001

503322

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 525754 | 0000 |
| WEIGHMASTER | | |
| 23000056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 21 August 2007 | | 11:26 am |
| DATE OUT | | TIME OUT |
| 21 August 2007 | | 11:26 am |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 545141 | | |

Gross Weight 80.000.00 lb
 Tare Weight 35.580.00 lb
 Net Weight 44.420.00 lb 22.21 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.21 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LF | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645141

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3596 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070900 0511915 | | 19. Total Quantity D Drums 0 Gallons Y Yards 1 Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Bachman | | Signature | | Month Day Year 8 2 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Joe Rute | | Signature | | Month Day Year 8 2 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8 2 07 | |

TRANSPORTER #2

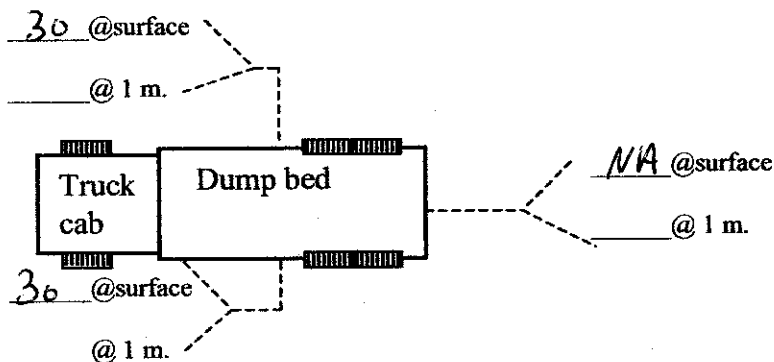
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1139 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

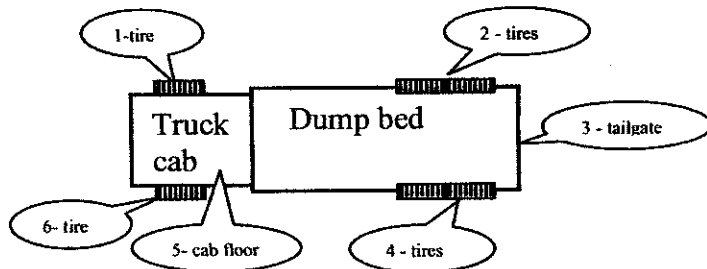
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

505545

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
80603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 555776 | | 0000 | |
| WEIGHMASTER | | | | | |
| 1600056 Barbark Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 12:03 PM | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 12:03 PM | | |
| VEHICLE | | | ROLL OFF | | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645148 | | | | | |

Contract: YE11915

00 Gross Weight 78,040.00 lb
Tare Weight 35,640.00 lb
Net Weight 43,400.00 lb 21.70 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.70 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

0645148

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden CO ACCOUNT # 960605 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 YS11915 | | 19. Total Quantity D-Drums 6 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Bickman | | | | 8 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Santiaso Vargas | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| D. L. ... | | | | 8 21 07 | |

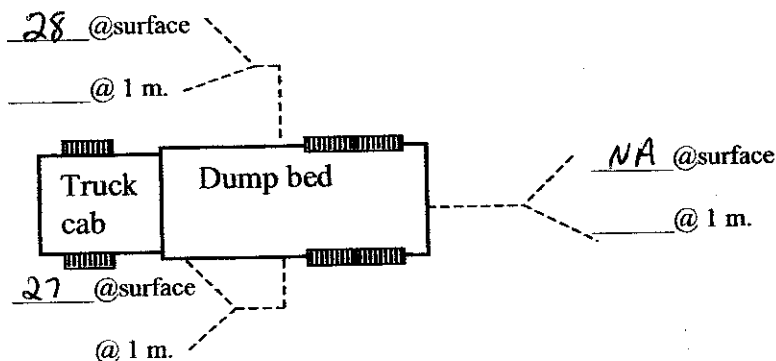
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1145 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

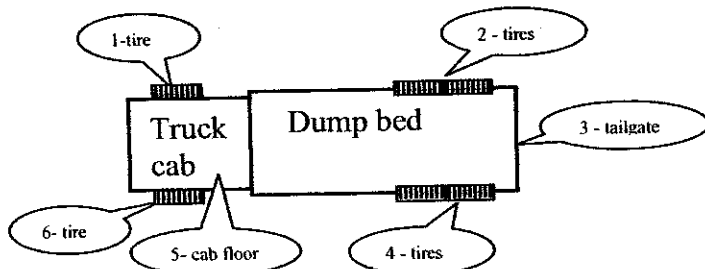
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.6 | 563.4 | |

583346 23

FOOTHILLS LANDFILL
 1900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 583377F | 0000 |
| WEIGHMASTER | | |
| 1500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 12:06 pm | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 12:06 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 045147 | | |

Gross Weight 84,340.00 lb
 Tare Weight 35,100.00 lb Inbound --
 Net Weight 49,240.00 lb 24.62 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.62 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645147

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit G-Gallons T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 21 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] Month 8 Day 21 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Barbara Taylor | | | | Signature [Signature] Month Day Year | |

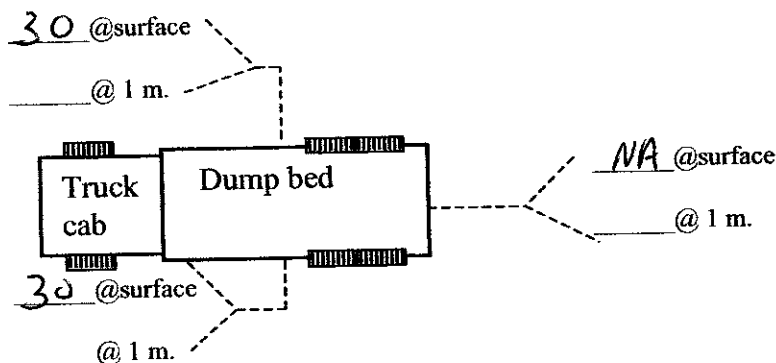
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1152 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

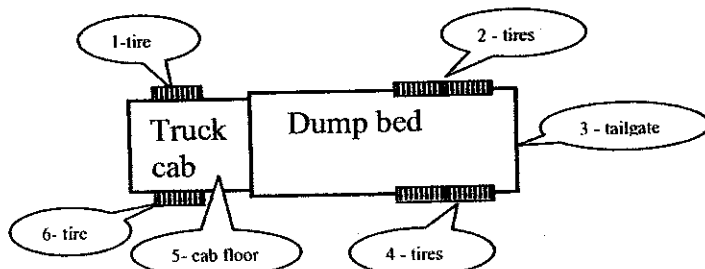
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

303530

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 585734 | | 0000 | |
| WEIGHMASTER | | | | | |
| 0300034 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 2:13 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 12:13 pm | | |
| VEHICLE | | | ROLL OFF | | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 643144 | | | | | |

00 Gross Weight 82,200.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 45,000.00 lb 32.54 Tn

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.54 | TN | SM-COFT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |



SIGNATURE

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645146

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 8000 Hwy 93 Golden, CO APPROX #1 #24003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 970908 511915 | | Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Shannon | | | | 6 4 17 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Shannon | | | | 6 4 17 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

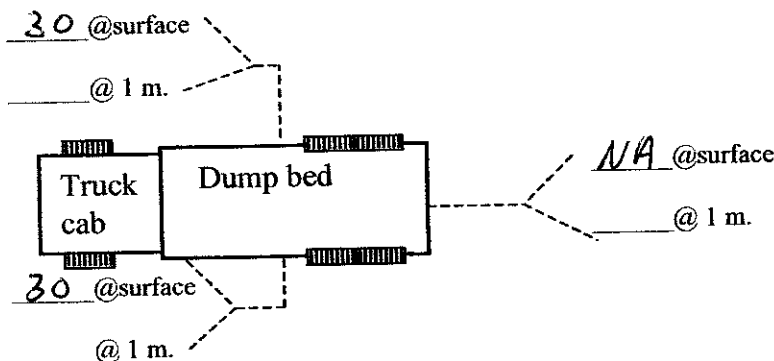
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1154 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

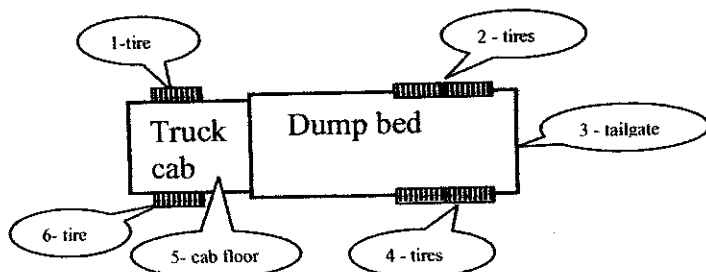
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 543.4 |

303500

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 085771 | | 0000 | |
| WEIGHMASTER | | | | | |
| 0800056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 2:10 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 12:18 am | | |
| VEHICLE | | | ROLL OFF | | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645148 | | | | | |

Gross Weight 81,760.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 44,560.00 lb 22.03 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.03 | TN | EX-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|----------|
| NET AMOU |
| TENDERED |
| CHANGE |
| CHF |



NON-HAZARDOUS WASTE MANIFEST

0645145

Please print or type

| | | | | | | | |
|--|--|--|--|----------------------------|--|--|---------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name Orion Trucking H12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 99 Golden, CO ACCOUNT # 900803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L87 070908 Y511915 | | 18. Containers | | 19. Total Quantity D Drums Y-Yards T-Tons | 20. Unit Wt/Vol G-Gallons |
| | | | | No. | | | |
| | | | | Type | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve [Signature] | | | | Signature [Signature] | | Month Day Year 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month Day Year 8 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | Month Day Year 8 21 07 | |

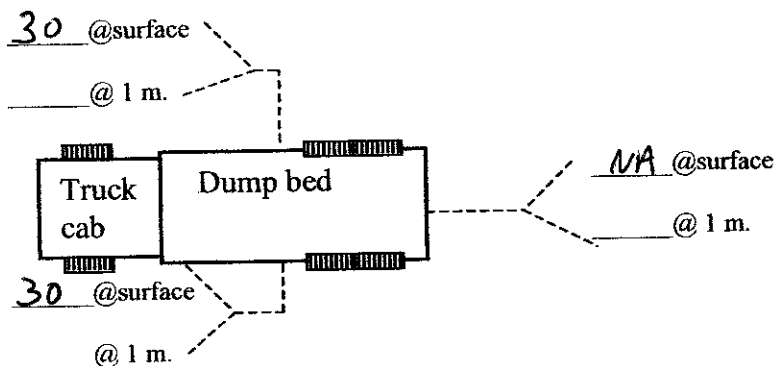
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1209 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

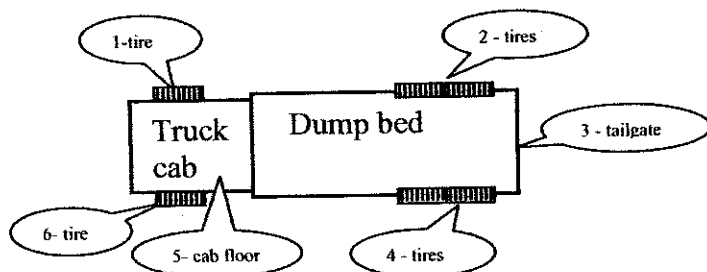
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

503372 0

FOOTHILLS LANDFILL
8900 HIGHWAY 91
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 365802 | | 0000 | |
| WEIGHMASTER | | | | | |
| R500032 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 12:28 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 12:28 pm | | |
| VEHICLE | | | ROLL OFF | | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 642144 | | | | | |

00 Gross Weight 62,920.00 lb
Tare Weight 38,540.00 lb
Net Weight 24,380.00 lb 23.19 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.19 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645144

Please print or type.

| | | | | | |
|--|--|---|---|---------------------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3000 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3000 | | |
| 4. Phone () | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1800 Hwy 92 Golden, CO 80401 # 000000 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 0700006 1511015 | | 19. Total Quantity 18 4 Y-Yards | |
| b. | | | | 20. Unit Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Williams | | Signature | | Month Day Year 12/21/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 12/21/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

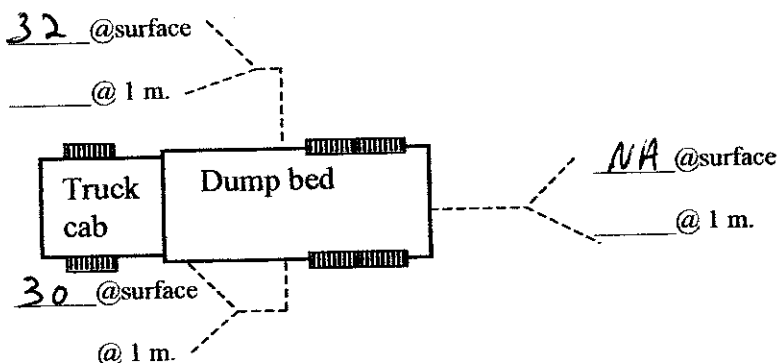
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1215 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

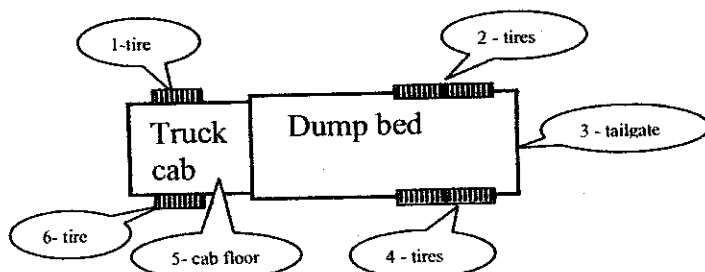
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

003379

FOOTHILL LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 806600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YB11915

| | | | | | |
|----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 885810 | | 0000 | |
| WEIGHMASTER | | | | | |
| BS00056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 12:36 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 12:26 pm | | |
| VEHICLE | | | | ROLL OFF | |
| YB11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 445143 | | | | | |

Gross Weight 60.560.00 lb
 Tare Weight 35.700.00 lb
 Net Weight 24.860.00 lb 22.43 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.43 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645143

Please print or type.

| | | | | | | | | | | | |
|--|--|--|--|---|--|--------------------|--|----------|--|---------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 302-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 961603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070906 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit | | | |
| | | | | No. | | Type | | Drums | | Gallons | |
| | | | | | | | | Y-Yards | | T-Tons | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. Printed/Typed Name <u>Steve Beckman</u> Signature <u>[Signature]</u> Month <u>8</u> Day <u>11</u> Year <u>07</u> | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials Printed/Typed Name <u>Rafael Olazo Lopez</u> Signature <u>[Signature]</u> Month <u>08</u> Day <u>21</u> Year <u>07</u> | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) Printed/Typed Name Signature Month Day Year | | | | | | | | | | | |

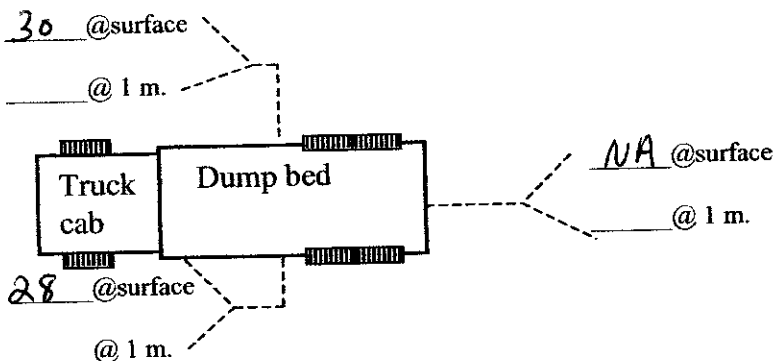
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1219 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

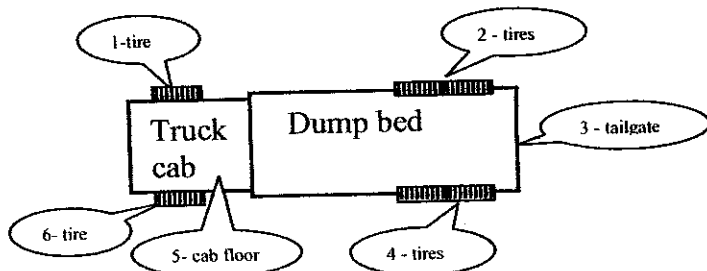
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

503334

14/

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO

930603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585810 | 0000 |
| WEIGHMASTER | | |
| 2500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 12:40 pm | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 12:40 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645142 | | |

Gross Weight 30,340.00 lb

Tare Weight 34,260.00 lb

Inbound -

Net Weight 46,060.00 lb 23.04 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.04 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten signature]



NON-HAZARDOUS WASTE MANIFEST

0645142

Please print or type

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|----------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 9606US (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | Drums | Gallons | |
| a. Norm Soil | | CO167 070908 Y511915 | | 18 | ✓ | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brubaker | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month 8 | Day 21 | Year 07 |
| Printed/Typed Name Mike Murray | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 21 | Year 07 |

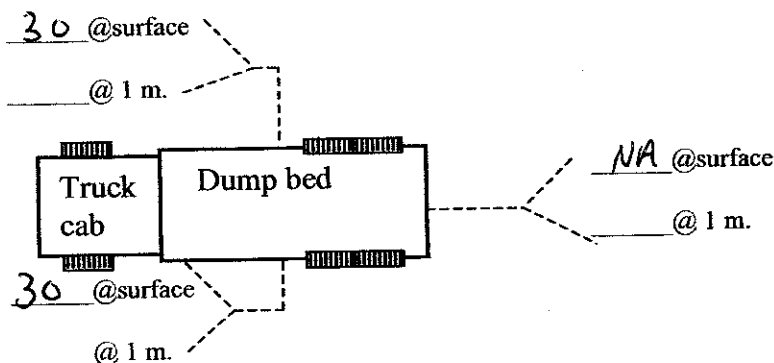
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1228 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JP01

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

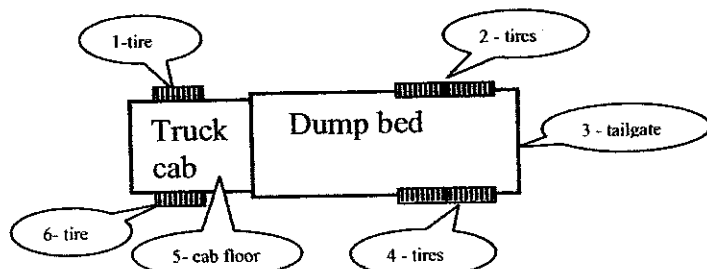
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

0000000

FOOTHILLS LANDFILL
 8900 HIGHWAY 70
 GOLDEN
 CO
 80400
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract # 7511915

| | | |
|-----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555512 | 0000 |
| WEIGHMASTER | | |
| 15000006 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 12:44 PM | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 12:40 PM | |
| VEHICLE | ROLL OFF | |
| 7511915 | | |
| REFERENCE | ORIGIN | |
| 745138 | | |

Gross Weight 80,400.00 lb
 Tare Weight 38,500.00 lb
 Net Weight 41,900.00 lb 22.41 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.41 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645138

Please print or type.

| | | | | | |
|--|--|---|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 19. Total Quantity D Drums G Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 21 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month Day Year | |

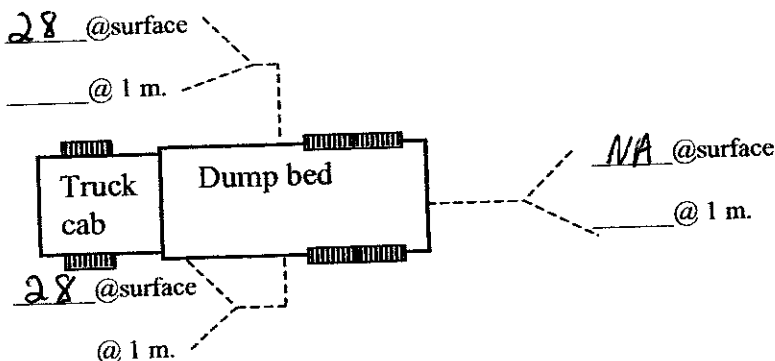
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1310 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: DO 4

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

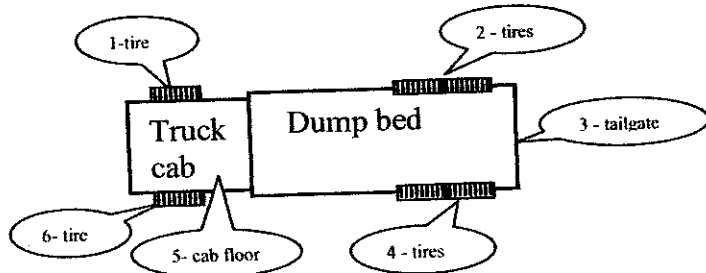
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

FOOTHILLS LANDFILL
 9700 HIGHWAY 93
 GOLDEN
 CO
 800603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555043 | 0000 |
| WEIGHMASTER | | |
| 0500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 1:30 pm | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 1:32 pm | |
| VEHICLE | ROLL OFF | |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 445137 | | |

00 Gross Weight 80,440.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 44,800.00 lb 22.40 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.40 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

V D 04
0645137

Please print or type

| | | | | | | | | |
|--|--|--|--|----------------------------|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2900 Hwy 90 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | 0 Drums | 0 Gallons | |
| | | | | | | Y-Yards | T-Tons | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Benhman | | | | Signature [Signature] | | Month 8 | Day 21 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Santos Vazquez | | | | Signature [Signature] | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature [Signature] | | Month 8 | Day 21 | Year 07 |

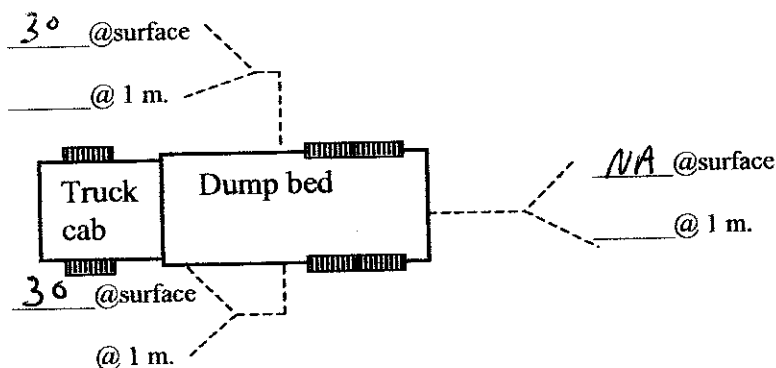
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1315 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

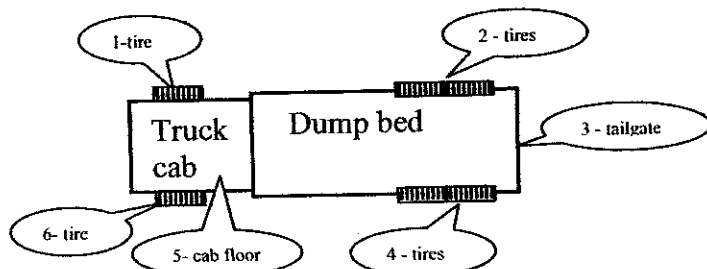
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

00000000

FOOTHILLS LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 750600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 58384+ | | 0000 | |
| WEIGHMASTER | | | | | |
| DE00056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 1:05 PM | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 1:05 PM | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 443136 | | | | | |

00 Gross Weight 82,200.00 LB
 Tare Weight 35,100.00 LB
 Net Weight 47,100.00 LB 22.55 TN

Trucked -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.55 | TN | SW-COIT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0645136

Please print or type

| | | | | | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|-----------------------|--------------------|-----------------|-----|---------|--------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3998 | | | | | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 92 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | | | |
| | | | | | | | | | No. | Type | |
| | | | | | a. Norm Soil | CO L67 070908 Y511915 | | | | Y-Yards | T-Tons |
| | | | | | b. | | | | | | |
| | | | | | c. | | | | | | |
| d. | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | Month Day Year | | | | | |
| Steve Beckman | | | | | | 8 21 07 | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | Month Day Year | | | | | |
| MARK PHELAN | | | | | | 8 21 07 | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | Month Day Year | | | | | |
| | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | Signature | | | Month Day Year | | | | | |
| B. Davis | | | | | | 8 21 07 | | | | | |

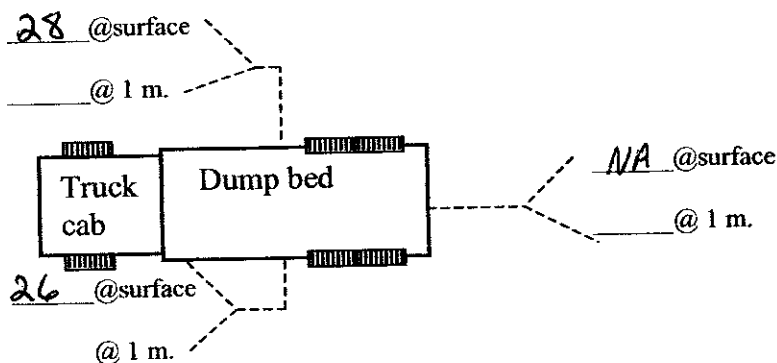
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1320 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

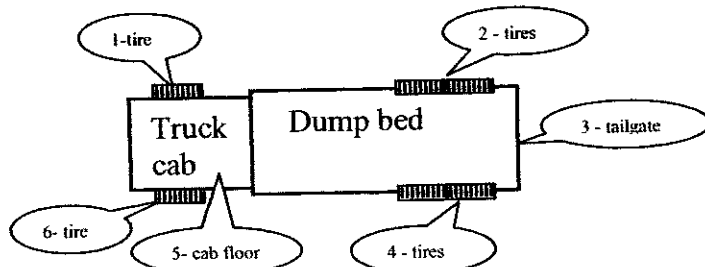
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

303420 ✓ 7

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 525550 | 0000 |
| WEIGHMASTER | | |
| 1500054 Barbara Ic 5 | | |
| DATE IN | | TIME IN |
| 21 August 2007 | | 1:42 PM |
| DATE OUT | | TIME OUT |
| 21 August 2007 | | 1:42 PM |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 548135 | | |

Gross Weight 25,550.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 43,360.00 lb 24.15 TP

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.15 | TR | SW-COAT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645135

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name J De Groot Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Football Landfill 8910 Hwy 90 Golden, CO ACCOUNT # 50000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| a. Non Soil | | 20. Unit Y-Yards T-Tons | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Br. Hman | | | | Signature [Signature] | |
| | | | | Month Day Year 08 11 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Keith Shannon | | | | Signature [Signature] | |
| | | | | Month Day Year 08 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |

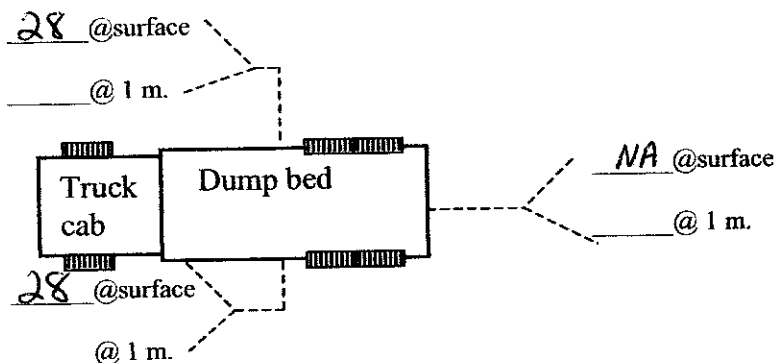
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1326 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

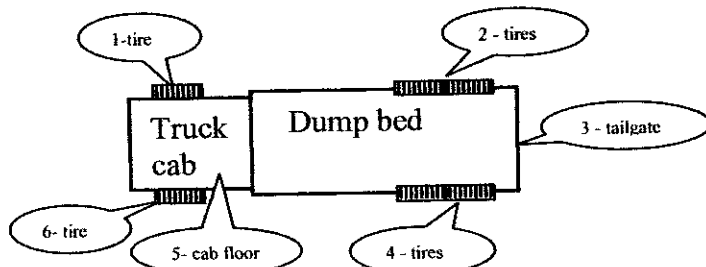
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | α 0 cpm | β 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503428 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y011915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | T03034 | | 0000 | |
| WEIGHMASTER | | | | | |
| 6500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 1:44 PM | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 1:44 PM | | |
| VEHICLE | | | ROLL OFF | | |
| Y011915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 045134 | | | | | |

Gross Weight 83,856.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 46,156.00 lb 24.09 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.09 | TN | SH-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645134

Please print or type.

| | | | | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|--|------------------------|--|----------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name Geniec Trucking #12 | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 00000 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | | 20. Unit | |
| | | | | | No. Type | | D Drums 3 Gallons | | Y-Yards T-Tons | |
| a. Norm Soil | | | CO L67 070903 Y511915 | | 8 | | | | | |
| b. | | | | | | | | | | |
| c. | | | | | | | | | | |
| d. | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | | Signature | | Month 8 Day 21 Year 07 | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name Sean G. [unclear] | | | | | Signature | | Month 8 Day 21 Year 07 | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | Month Day Year | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | Month 6 Day 17 Year 07 | | | |

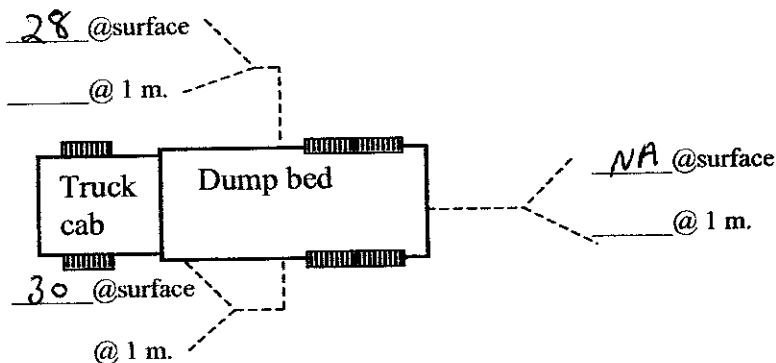
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1334 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

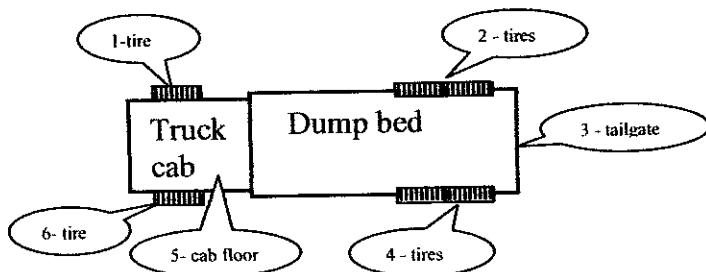
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

500420

0

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 555556 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 1:51 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 1:51 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645153 | | | | | |

Gross Weight 63,940.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 27,400.00 lb 23.70 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.70 | TN | SW-COAT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645133

Please print or type

| | | | | | |
|--|--|--------------------------|---|---|----------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3098 | |
| 4. Phone () | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 10001 Hwy 92 Golden, CO 80601 # 80601 # Colorado School of Mines | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| | | | | | No. Type |
| a. Norm Soil | | | 20 LE7 07908 Y611915 | | 18 Y Y-Yards |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brakman | | | Signature | | Month Day Year 8 8 97 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | Signature | | Month Day Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

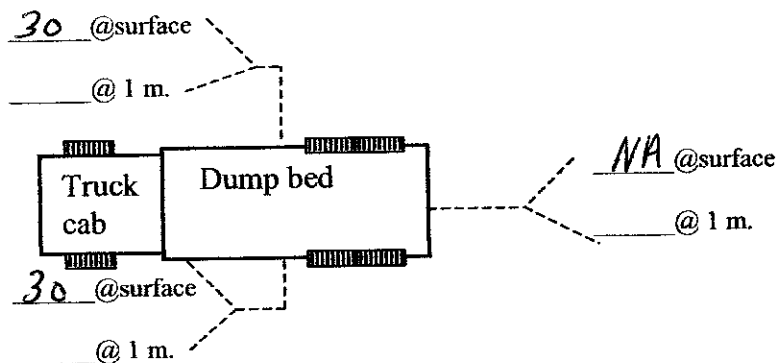
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1340 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

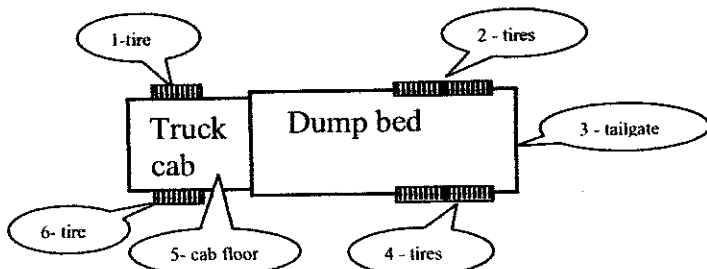
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

513431

13

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585260 | 0000 |
| WEIGHMASTER | | |
| 6300054 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 1:55 pm | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 1:57 pm | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645132 | | |

Gross Weight 81.440.00 lb
 Tare Weight 35.700.00 lb
 Net Weight 45.740.00 lb 22.87 TN

Incurred -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.87 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645132

Please print or type.

| | | | | | |
|--|--|---|---|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () 303-273-3998 | | | 6. Phone () | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Potholes Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 060803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 8 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Dator Coloco Lopez | | | | 08 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | 6 21 07 | |

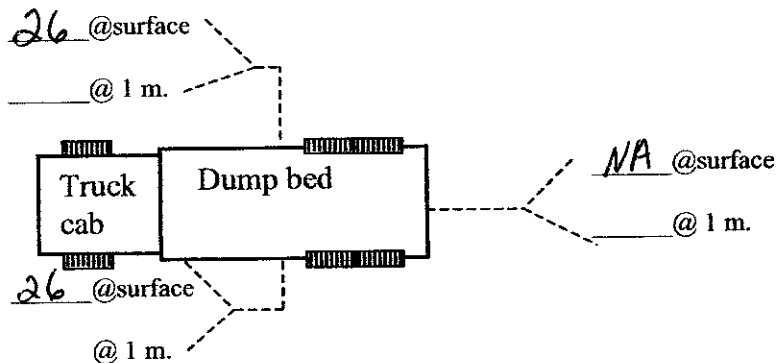
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1345 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

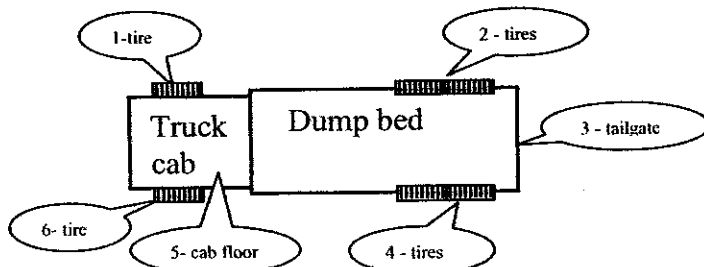
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

533437 48

FOOTHILLS LANDFILL
 8700 HIGHWAY 98
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915

| | | | | | |
|-----------------------|--|--------|--------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 755866 | | 0000 | |
| WEIGHMASTER | | | | | |
| #2000056 Barbara Jc 5 | | | | | |
| DATE IN | | | | TIME IN | |
| 21 August 2007 | | | | 2:06 pm | |
| DATE OUT | | | | TIME OUT | |
| 21 August 2007 | | | | 2:06 pm | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | | ORIGIN | | |
| 645131 | | | | | |

Gross Weight 80.820.00 lb
 Tare Weight 34.260.00 lb
 Net Weight 46.560.00 lb 23.21 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.21 | TN | SW-COAT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE MLA



NON-HAZARDOUS WASTE MANIFEST

4601
0645131

Please print or type.

| | | | | | |
|--|--|--------------------------|---|--|---|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3698 | |
| 4. Phone () 303-273-3698 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | | 14. US EPA ID Number | | 15. Facility's Phone |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers |
| a. Norm Soil | | | CC L67 070908 Y511915 | | 19. Total Quantity D Drums Y-Yards G Gallons T-Tons |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Berthman | | | Signature | | Month Day Year 8 21 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | | Signature | | Month Day Year 8 21 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | Signature | | Month Day Year |

TRANSPORTER #2

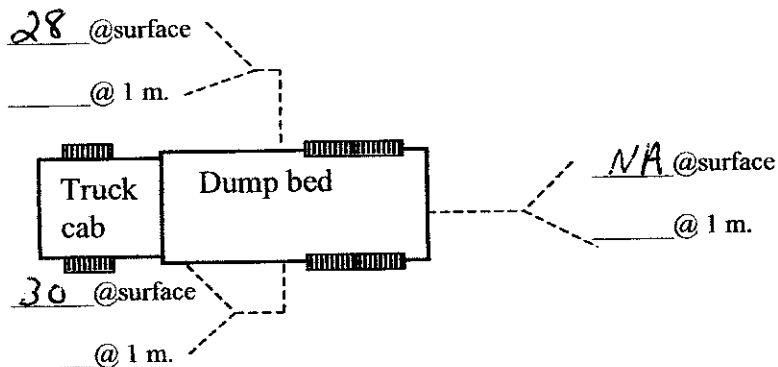
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1351 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve 1351 Truck license plate no. /state: JD 01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

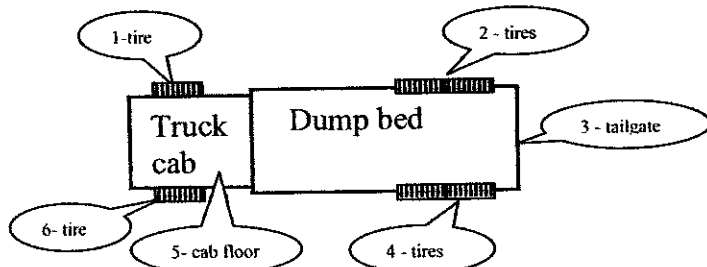
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503438 J D07

FOOTHILLS LANDFILL
8900 HIGHWAY 70
GOLDEN
CO
80403
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

| | | | | | |
|---------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | ES5868 | | 0000 | |
| WEIGHMASTER | | | | | |
| SC0056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 2:10 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 2:10 pm | | |
| VEHICLE | | | ROLL OFF | | |
| YEL1915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 445130 | | | | | |

Contract: YEL1915

Gross Weight 79,700.00 lb
Tare Weight 35,580.00 lb
Net Weight 44,120.00 lb 22.06 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.06 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0645130

Please print or type.

| | | | | | | | | |
|--|--|---|--|--|------|--------------------|----------|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3996 | | | | |
| 4. Phone () 303-273-3996 | | | | 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit | |
| | | | | No. | Type | | | D-Drums |
| a. Norm Soil | | CO L87 070906 Y511915 | | 18 | X | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name JOSE W RUIZ | | | | Signature | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | | | |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 21 | Year 07 |

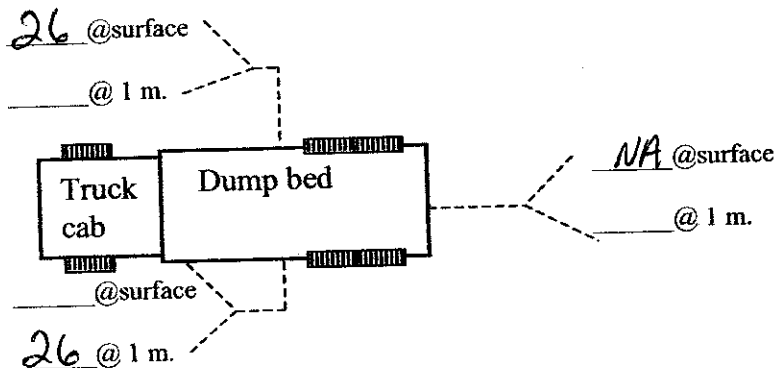
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1434 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve ~~184~~ Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

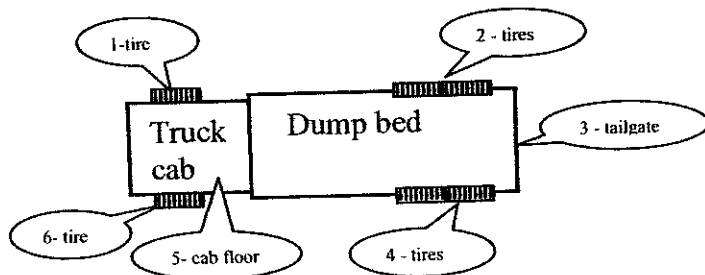
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | X 0 cpm | β 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

503455 ✓ 1004

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YS11915


| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 585283 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 2:56 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 2:56 pm | | |
| VEHICLE | | | ROLL OFF | | |
| YEL1915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645129 | | | | | |

Gross Weight 77,920.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 42,280.00 lb 21.14 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.14 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

0645129

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 93 Golden, CO ACCOUNT # 800003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CC 167 070908 Y511915 | | 19. Total Quantity D-Drums C-Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name <i>Steve Brinkman</i> | | | | Signature <i>[Signature]</i> Month <i>6</i> Day <i>21</i> Year <i>07</i> | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name <i>Santiago Vargas</i> | | | | Signature <i>[Signature]</i> Month <i></i> Day <i></i> Year <i></i> | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature Month <i></i> Day <i></i> Year <i></i> | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature Month <i>8</i> Day <i>19</i> Year <i>10</i> | |

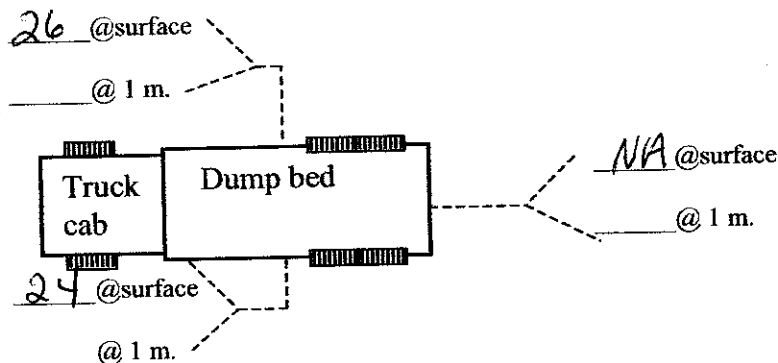
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1439 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

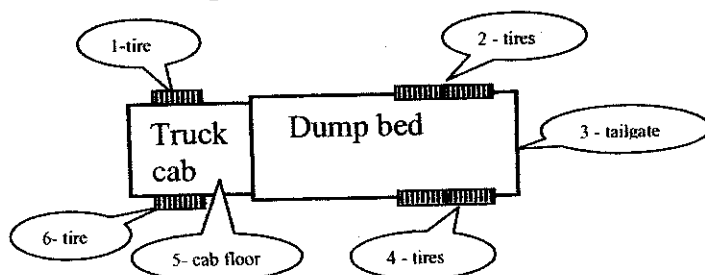
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | β 262 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

503457 23

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE1191E

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 585885 | | 0000 | |
| WEIGHMASTER | | | | | |
| BSC0056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 2:00 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 3:00 pm | | |
| VEHICLE | | | ROLL OFF | | |
| YE1191E | | | | | |
| REFERENCE | | ORIGIN | | | |
| 445128 | | | | | |

Gross Weight 81,920.00 lb
 Tare Weight 25,160.00 lb
 Net Weight 46,820.00 lb 23.41 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.41 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645128

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benkman | | | | Signature [Signature] Month 8 Day 21 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature [Signature] Month 8 Day 21 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |

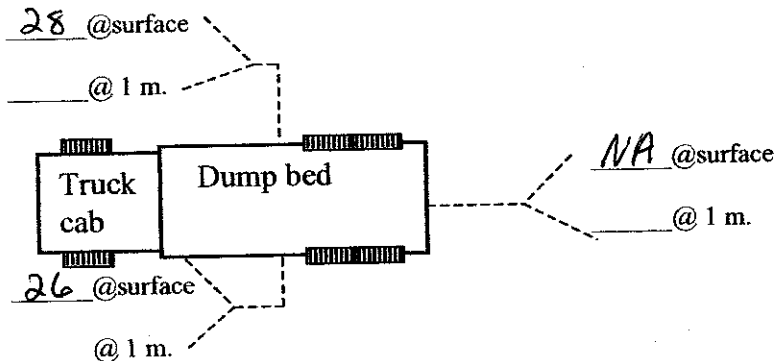
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1445 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

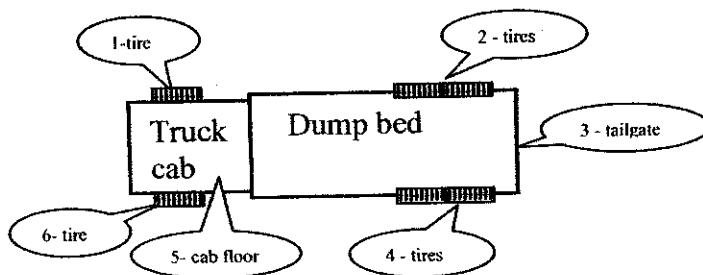
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2206 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503459 ay

FOOT-HILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YB11915

| | | |
|---------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 585887 | 0000 |
| WEIGHMASTER | | |
| 000058 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 21 August 2007 | | 3:01 pm |
| DATE OUT | | TIME OUT |
| 21 August 2007 | | 3:01 pm |
| VEHICLE | | ROLL OFF |
| YB11915 | | |
| REFERENCE | ORIGIN | |
| 645127 | | |

Gross Weight 81,960.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 44,760.00 lb 22.38 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.38 | TN | 30-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

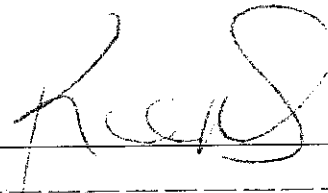
NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE






NON-HAZARDOUS WASTE MANIFEST

0645127

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name JOE GRIEV TRUCKING | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 8000 Hwy 93 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. North Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y611815 | | 18. Containers | |
| | | | | No. Type | |
| | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| | | | | 20. Unit Wt/Vol Y-Yards T-Tons | |
| | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature [Signature] | | Month Day Year 6 21 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name K. L. STANON | | Signature [Signature] | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

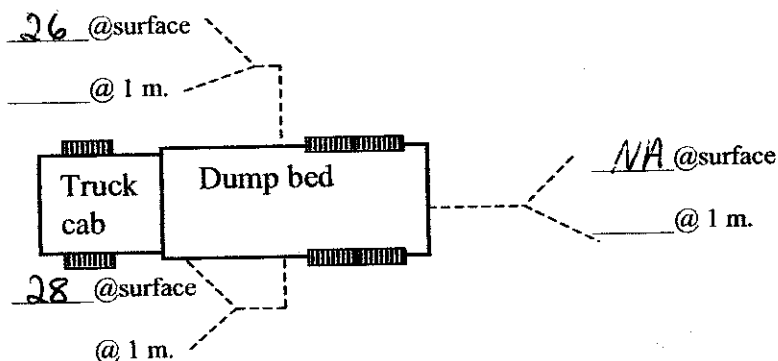
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1450 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

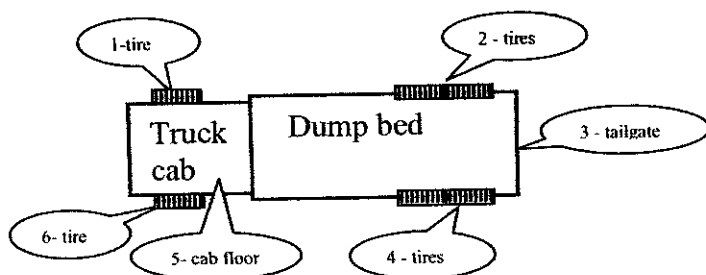
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

583482 7

FOOTHILLS LANDFILL
 8900 HIGHWAY 78
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 585890 | | 0000 | |
| WEIGHMASTER | | | | | |
| 5800356 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 3:07 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 3:07 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645126 | | | | | |

Gross Weight 53,140.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 15,440.00 lb 22.72 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.72 | TN | SO-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645126

Please print or type:

| | | | | | | | | |
|--|--|--|--|---|------|-------------------------------|--------------------------------|------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | | | | |
| 7. Transporter #1 Company Name Cervello Trucking H2O | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | D Drums Y-Yards | G Gallons T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Sean Olson | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 21 | Year 07 |

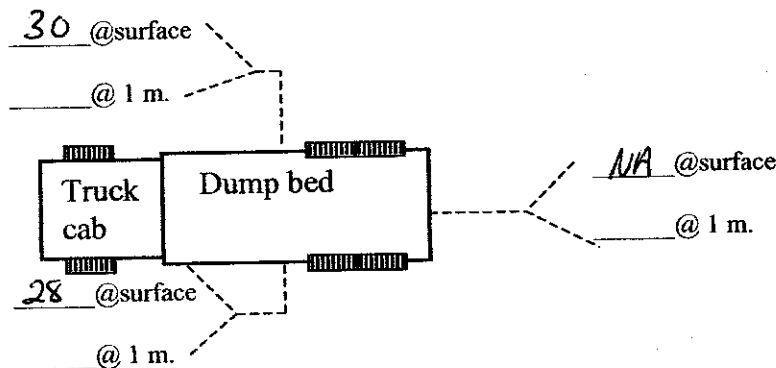
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1500 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

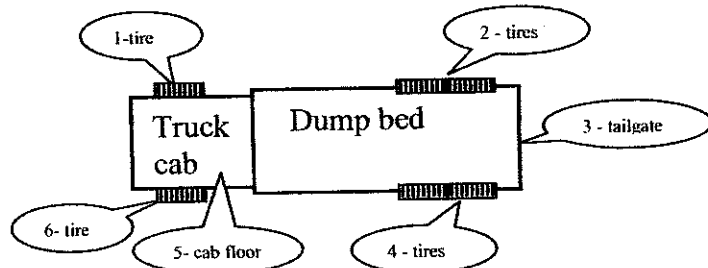
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
 A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

506468

8

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 525296 | | 0000 | |
| WEIGHMASTER | | | | | |
| K500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 3:17 pm | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 3:19 pm | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 6-10-07 | | | | | |

Gross Weight 79,100.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 42,560.00 lb 21.28 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.28 | TN | SO-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



[Handwritten Signature]

SIGNATURE

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645125

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 | |
| 4. Phone () 303-273-3996 | | | | 6. Phone () 303-273-3996 | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960613 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D Drums 0 Gallons Y-Yards 10 4 T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 2 Day 21 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month 2 Day 21 Year 07 | |

TRANSPORTER #2

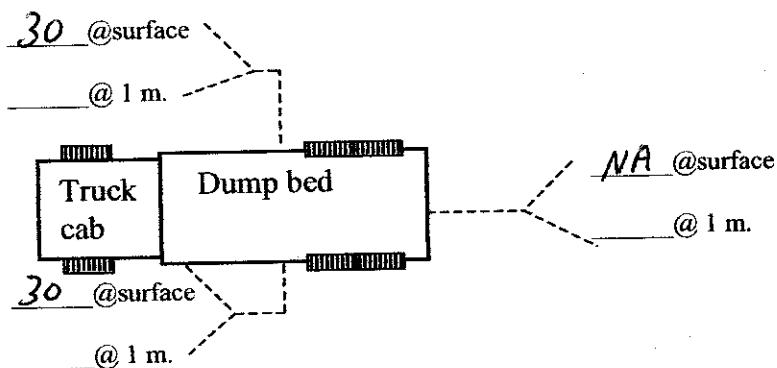
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1505 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

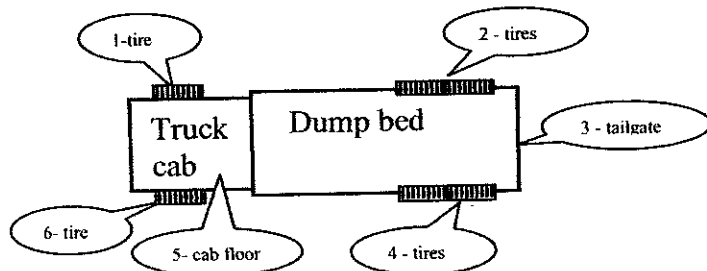
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

5.3470 13

FOOTHILLS LANDFILL
8700 HIGHWAY 93
GOLDEN
CO
806605
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 825595 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 21 August 2007 | | 3:23 pm |
| DATE OUT | | TIME OUT |
| 21 August 2007 | | 3:23 pm |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 645134 | | |

Gross Weight 75,820.00 lb
Tare Weight 35,700.00 lb
Net Weight 39,700.00 lb 19.96 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.96 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645124

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Drums G-Gallons Y-Yards T-Tons | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | |
| | | | | Month Day Year 8 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Colazo Lopez | | | | Signature [Signature] | |
| | | | | Month Day Year 08 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | | | Signature | |
| | | | | Month Day Year 8 21 07 | |

TRANSPORTER #2

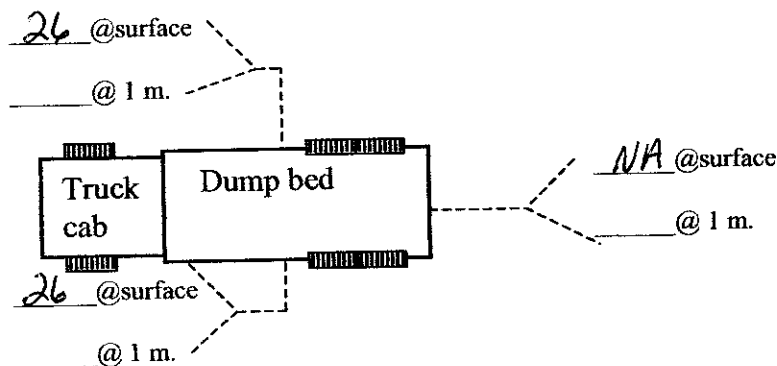
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1508 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

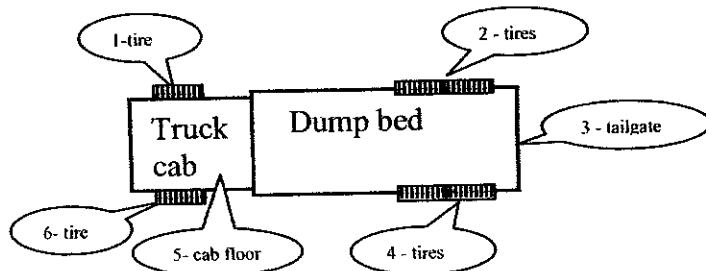
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503473 461

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
980603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YS11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 503473 | 0000 |
| WEIGHMASTER | | |
| 8500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 21 August 2007 | | 3:35 pm |
| DATE OUT | | TIME OUT |
| 21 August 2007 | | 3:36 pm |
| VEHICLE | | ROLL OFF |
| YS11915 | | |
| REFERENCE | ORIGIN | |
| 645123 | | |

Gross Weight 74,340.00 lb
Tare Weight 34,260.00 lb
Net Weight 40,080.00 lb 20.04 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.04 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE *[Signature]*

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645123

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3998 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960003 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 | 4 | D Drums | G Gallons | |
| b. | | | | | | Y-Yards | T-Tons | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 8 | Day 20 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Mike Murray | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 6 | Day 11 | Year 07 |

TRANSPORTER #2

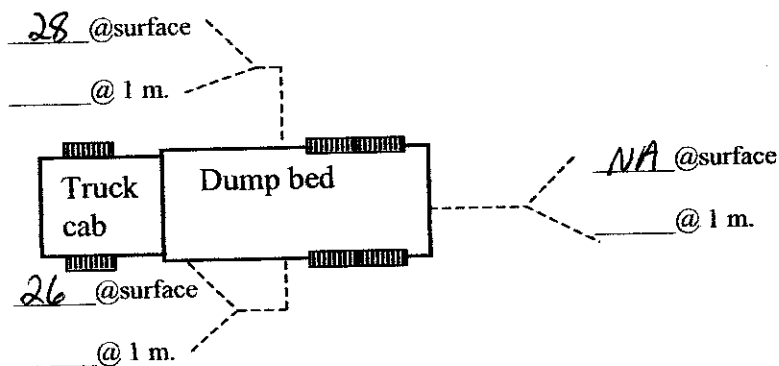
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1515 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: JD 01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10 mrem/hr, survey is complete.)

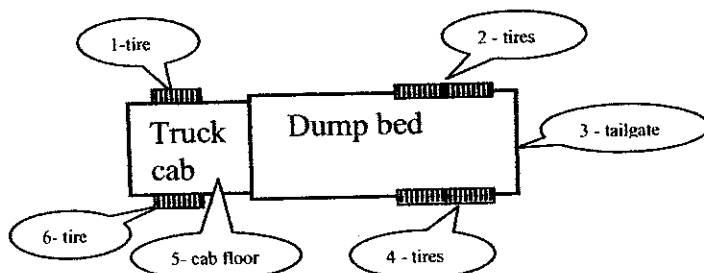
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

583477 01

FOOTHILLS LANDFILL
 8700 HIGHWAY 92
 GOLDEN
 CO
 804603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 525403 | | 0000 | |
| WEIGHMASTER | | | | | |
| #300034 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 31 August 2007 | | | 8:32 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 3:32 pm | | |
| VEHICLE | | | | ROLL OFF | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645123 | | | | | |

Gross Weight 71,500.00 lb
 Tare Weight 35,530.00 lb Inbound -
 Net Weight 36,220.00 lb 18.11 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.11 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



JDOY

NON-HAZARDOUS WASTE MANIFEST

0645122

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 001603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L67 070906 Y511916 | | 18 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity D-Drums 3 Gallons Y-Yards 1-Tons | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] Month 8 Day 21 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE M. Ruiz | | | | Signature [Signature] Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | | | Signature [Signature] Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] Month Day Year | |

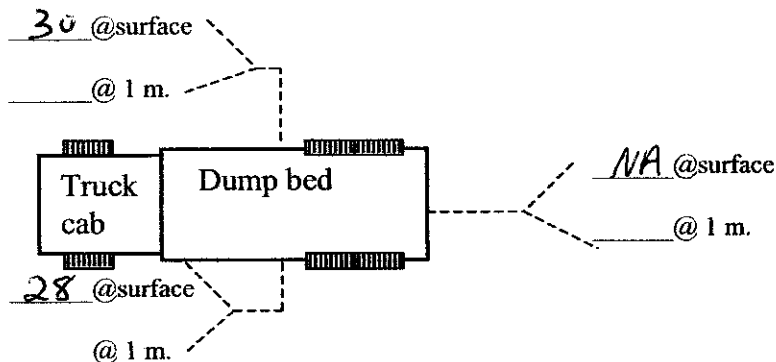
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1550 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

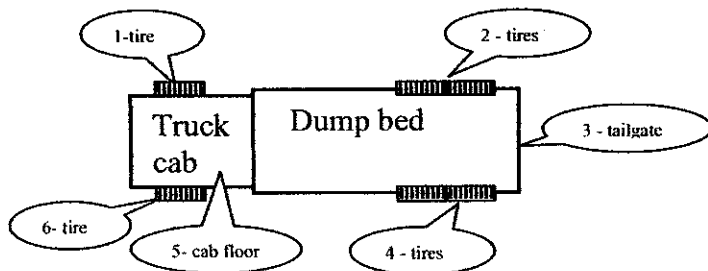
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503493

04

FOOTBALL LANDFILL
 8900 HIGHWAY 73
 GLEN
 CO
 80603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GLEN, CO 80601

Contract: Y511915

| | | | | | |
|--------------------------------------|--|------------------|---------------------|--------------|--|
| SITE 01 | | TICKET 285923 | | GRID 0000 | |
| WEIGHMASTER #000056 Barbara J's S | | | | | |
| DATE IN 21 August 2007 | | | TIME IN 4:07 pm | | |
| DATE OUT 21 August 2007 | | | TIME OUT 4:07 pm | | |
| VEHICLE Y511915 | | | ROLL OFF | | |
| REFERENCE 043117 | | ORIGIN | | | |

Gross Weight 75,000.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 39,360.00 lb 17.83 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.83 | TN | SU-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |



SIGNATURE

[Handwritten Signature]

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

0645119

Please print or type.

| | | | | | | | |
|--|--|--------------------------|---|---|----------------------------|------------------------|-------------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () 303-273-3998 | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | | 14. US EPA ID Number 115 | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity |
| | | | | | No. Type | | 20. Unit Wt/Vol |
| a. Norm Soil | | | CO L87 070908 Y511915 | | | | 0 Drums 0 Gallons Y-Yards 1-Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Schirmer | | | | Signature | | Month Day Year 8 2 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year 10 1 07 | |

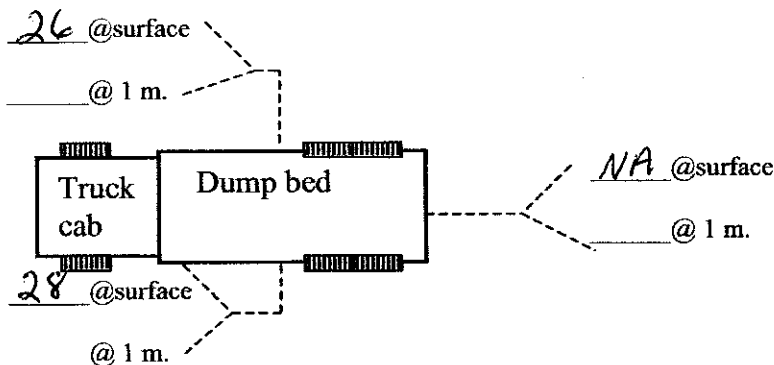
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1555 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

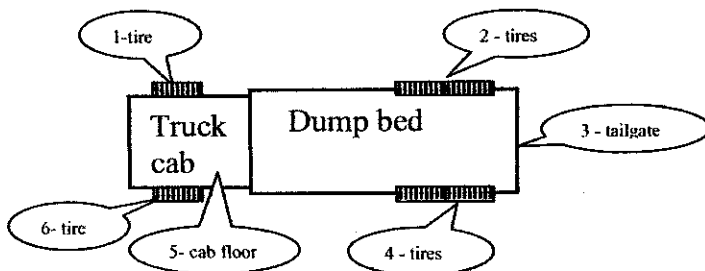
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

FOOTHILLS LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 740600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555727 | 0000 |
| WEIGHMASTER | | |
| 2500054 Barbara Jo E | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 4:14 pm | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 4:14 pm | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 643120 | | |

Gross Weight 79,700.00 LB
 Tare Weight 37,200.00 LB
 Net Weight 42,500.00 LB 21.25 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.25 | TN | SW-CONT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

Kearns



NON-HAZARDOUS WASTE MANIFEST

24
0645120

Please print or type

| | | | | | | | |
|--|--|---|--|---|------|--|---------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name Joe Griever Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Schultz Landfill 1500 Hwy 30 Golden, CO ACCOUNT # 80013 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity 0-Drums 0-Gallons | 20. Unit Wt/Vol G-Gallons |
| | | | | No. | Type | | |
| a. Norm Soil | | 00187 070908 Y511515 | | 18 | Y | Y.Yards | Tons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Joe Griever | | | | Signature | | Month Day Year 8 2 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Ken Shannon | | | | Signature | | Month Day Year 8 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

TRANSPORTER #1

COM000033

Stockpile B

p.1

1/1

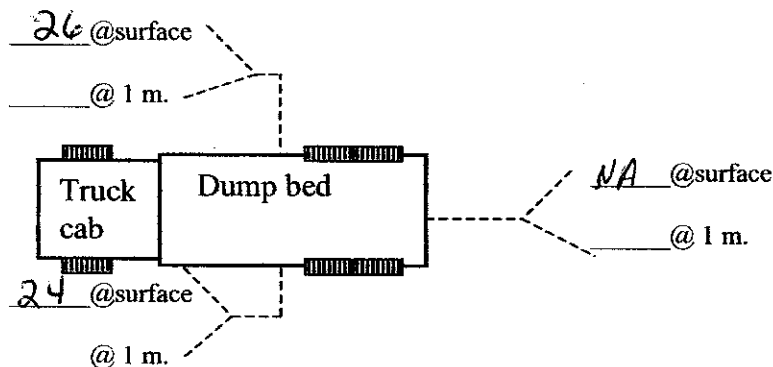
Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|------------|---------|---------|----------|----------------------------|
| Grieve 23 | 8/21/07 | 0700 | 0743 | 18 |
| Grieve 24 | 8/21/07 | 0700 | 0751 | 18 |
| Grieve 12 | 8/21/07 | 0700 | 0758 | 18 |
| Grieve 8 | 8/21/07 | 0700 | 0803 | 18 |
| Collazo 13 | 8/21/07 | 0700 | 0809 | 18 |
| Murray 461 | 8/21/07 | 0700 | 0814 | 18 |
| JD 01 | 8/21/07 | 0700 | 0821 | 18 |
| JD 04 | 8/21/07 | 0700 | 0825 | 18 |
| Grieve 23 | 8/21/07 | 0850 | 0900 | 18 |
| Grieve 24 | 8/21/07 | 0850 | 0905 | 18 |
| Grieve 12 | 8/21/07 | 0850 | 0910 | 18 |
| Grieve 8 | 8/21/07 | 0850 | 0918 | 18 |
| Collazo 13 | 8/21/07 | 0850 | 0926 | 18 |
| Murray 461 | 8/21/07 | 0850 | 0932 | 18 |
| JD 01 | 8/21/07 | 0850 | 0946 | 18 |
| JD 04 | 8/21/07 | 0850 | 1012 | 18 |
| Grieve 23 | 8/21/07 | 0950 | 1020 | 18 |
| Grieve 24 | 8/21/07 | 1027 | 1029 | 18 |
| Grieve 12 | 8/21/07 | 1027 | 1035 | 18 |
| Grieve 8 | 8/21/07 | 1030 | 1042 | 18 |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0743 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

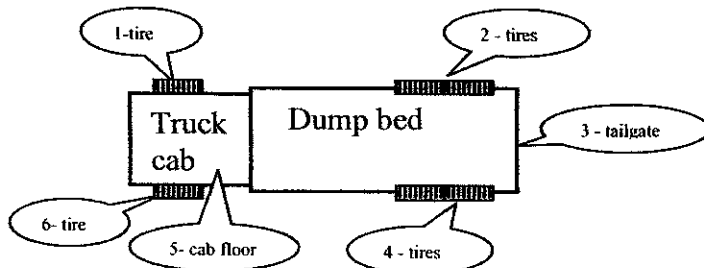
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|-----------------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 262 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

503205 23

FOOTHILLS LANDFILL
8900 HIGHWAY 93 N
GOLDEN
CO
804605
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555640 | 0000 |
| WEIGHMASTER | | |
| 2500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 8:08 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 8:20 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 545147 | | |

Gross Weight 70,520.00 lb
Tare Weight 39,100.00 lb
Net Weight 31,420.00 lb 15.71 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 15.71 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LI | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Signature]



NON-HAZARDOUS WASTE MANIFEST

0645149

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3908 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 93 Golden, CO ACCOUNT # 880803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums Y-Yards 20. Unit G-Gallons T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve L. Hatten | | Signature | | Month Day Year 8 4 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name MARK PHELAN | | Signature | | Month Day Year 8 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Steve L. Hatten | | Signature | | Month Day Year 8 21 07 | |

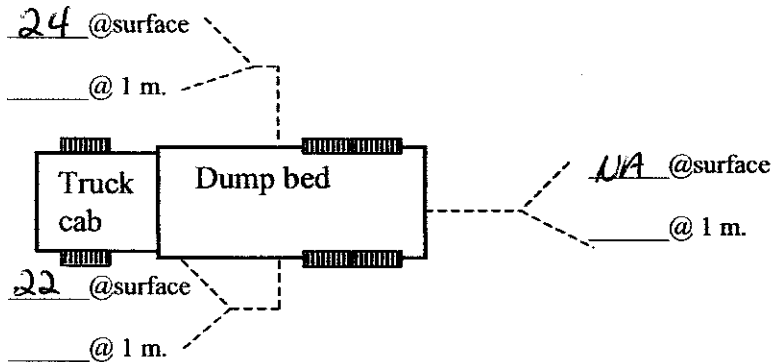
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0751 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

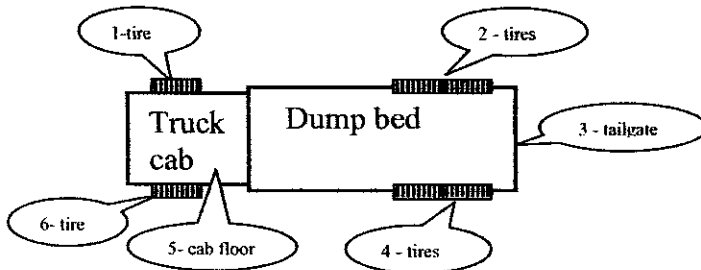
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

24

503207

FOOTHILL LANDFILL
 8700 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | EB5642 | 0000 |
| WEIGHMASTER | | |
| BCCC056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 8:12 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 8:24 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 643150 | | |

CO Gross Weight 71,720.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 34,520.00 lb 17.26 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.26 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

24
0645150

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Joe Grieve Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothill Community College 5500 Hwy 95 Golden, CO ACCOUNT # 20013 Colorado School of Mines | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO167 (7000) 511915 | | 19. Total Quantity 0 Drums 7 Yards 20. Unit Wt/Vol 0 Gallons 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Joe Grieve | | Joe Grieve | | 5 2 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Keith S. Lannon | | Keith S. Lannon | | 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

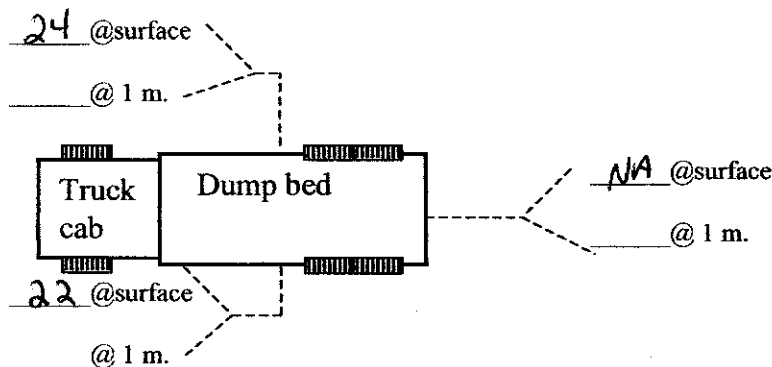
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0758 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13 12 444

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

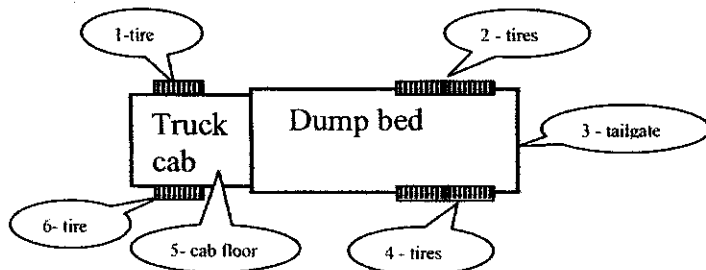
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

12

503208

FOOTHILL LANDFILL
 2900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN CO 80401

Contract# Y511915

#12

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 585643 | | 0000 | |
| WEIGHMASTER | | | | | |
| 9500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 8:15 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 8:25 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645151 | | | | | |

00 Gross Weight 73,560.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 35,860.00 lb 17.93 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.93 | TN | 30-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

18

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

0645151

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name Joe Grieco Trucking - #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 91 Golden, CO ACCOUNT # 990603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Non Soil | | CO L87 070908 Y611915 | | 19. Total Quantity 18 Drums Y-Yards 20. Unit Gallons -Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Grieco | | Signature | | Month Day Year 8 21 04 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Grieco | | Signature | | Month Day Year 8 21 04 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Brenda Taylor | | Signature | | Month Day Year 8 21 04 | |

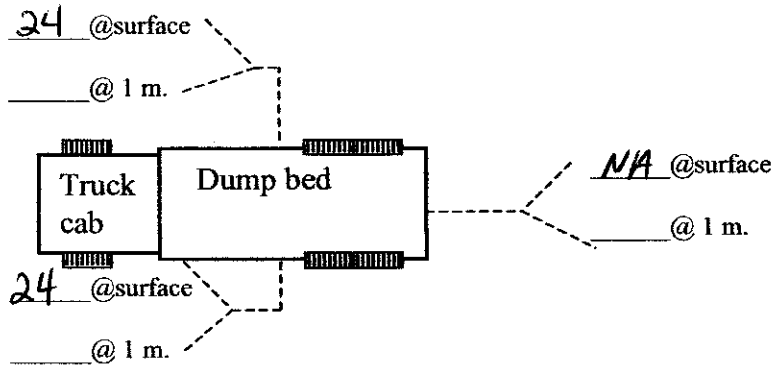
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0803 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

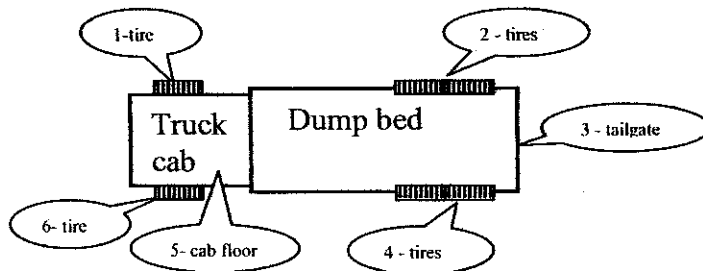
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

ALLIED WASTE



SIGNATURE

[Handwritten Signature]

CHECK NO.

CHANGE

TENDERED

NET AMOUNT

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 12.34 | TN | SA-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

CO OTHER WEIGHTS 71.220.00 LB
TARE WEIGHT 36.540.00 LB
NET WEIGHT 34.680.00 LB 12.34 TN

Inbound -

| | | | | | | | |
|---------------------------------------|--|--|--|--------------------|--|---------------------|--|
| DATE IN 21 August 2007 8:134 am | | DATE OUT 21 August 2007 8:135 am | | VEHICLE VLT1915 | | REFERENCE 6-5152 | |
| WEIGHMASTER 0000 | | GRID 0000 | | ORIGIN | | | |

FOOTHILLS LANDFILL
8900 KIMBERLY RD
GOLDEN
CO
80603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401
CONTACT: 7511915

503213

8-load



8

NON-HAZARDOUS WASTE MANIFEST

0645152

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|-------------------------------|------------------------------|----------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3998 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 900603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity D-Drums | 20. Unit Wt/Vol G/Gallons | |
| | | | | No. | Type | | | |
| a. Norm Soil | | CO L67 070908 Y511915 | | | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name <i>Steve Beckman</i> | | | | Signature <i>[Signature]</i> | | Month <i>8</i> | Day <i>24</i> | Year <i>27</i> |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

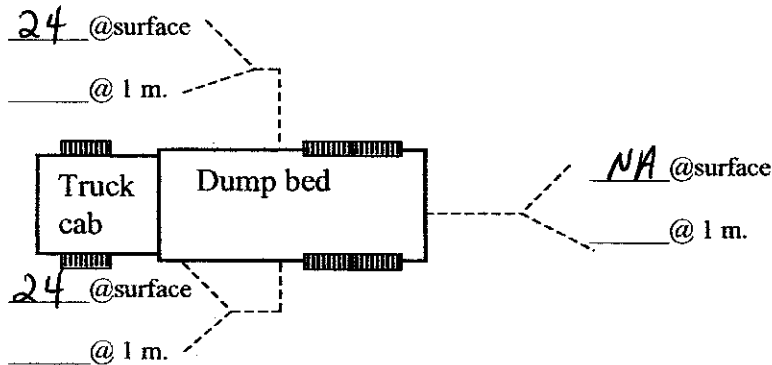
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0809 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

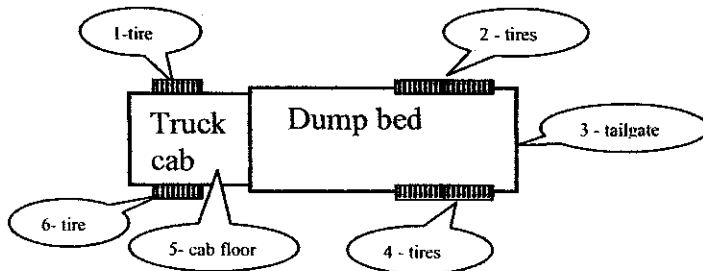
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503217 13

FOOTHILLS LANDFILL
 8700 HIGHWAY 92
 GOLDEN
 CO
 804603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | YE11915 | 0000 |
| WEIGHMASTER | | |
| #300056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 04:25 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 04:37 am | |
| VEHICLE | ROLL OFF | |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 345153 | | |

OO Gross Weight 70,080.00 lb
 Tare Weight 33,700.00 lb Inbound -
 Net Weight 34,380.00 lb 17.19 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.19 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645153

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070906 Y511915 | | 19. Total Quantity D Drums G Gallons Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 8 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Rafael Colorado L | | Signature | | Month Day Year 8 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8 21 07 | |

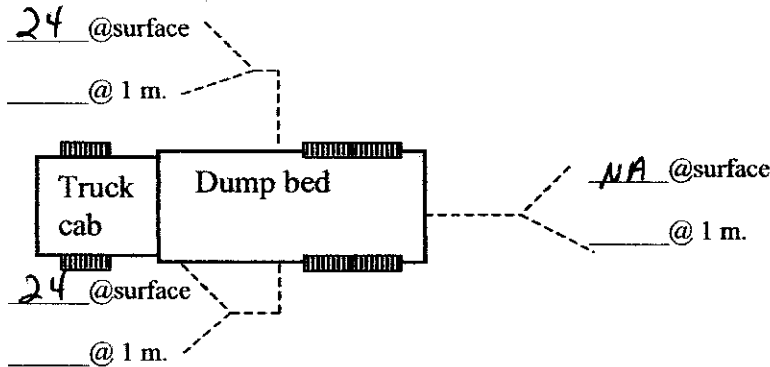
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0814 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

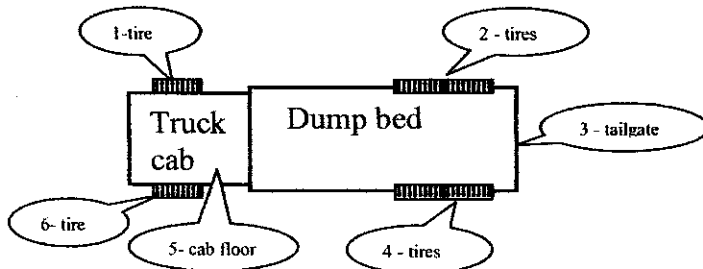
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2206 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

461

503220

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 555633 | 0000 |
| WEIGHMASTER | | |
| 5500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 8:34 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 8:43 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645154 | | |

00 Gross Weight 71,900.00 lb
 Tare Weight 34,260.00 lb
 Net Weight 37,640.00 lb 18.82 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.82 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0645154

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 990603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511S15 | | 19. Total Quantity D-Drums Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Buchanan | | Signature | | Month Day Year 8 31 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Mike Murray | | Signature | | Month Day Year 8 31 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name Steve Buchanan | | Signature | | Month Day Year 8 31 07 | |

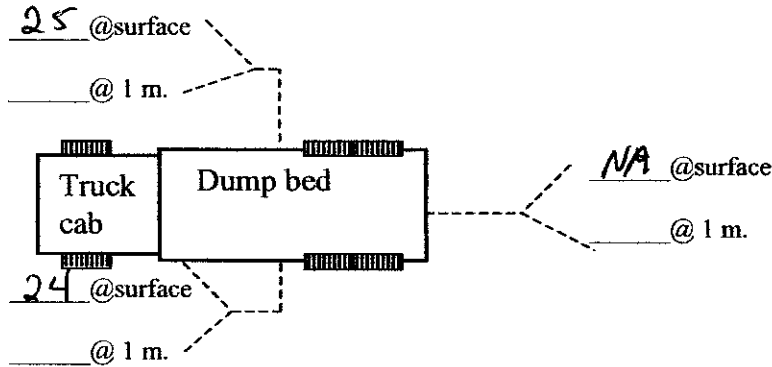
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0821 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD 01

Gamma Dose Rate Survey (µrem/hr)



Notes:
 Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

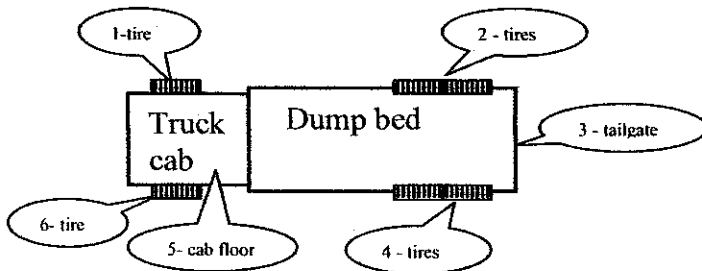
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

J001 503225

FORTMILLS LANDFILL
8900 HIGHWAY 92
GOLDEN
CO
750602
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract# YE11915

| | | |
|----------------------|--------|----------|
| SITE | TICKET | GRID |
| 01 | 503225 | 0000 |
| WEIGHMASTER | | |
| 1500056 Barbara Jo S | | |
| DATE IN | | TIME IN |
| 21 August 2007 | | 8:46 am |
| DATE OUT | | TIME OUT |
| 21 August 2007 | | 8:54 am |
| VEHICLE | | ROLL OFF |
| YE11915 | | |
| REFERENCE | ORIGIN | |
| 645155 | | |

GC Gross Weight 72.360.00 lb
Tare Weight 35.580.00 lb Inbound --
Net Weight 36.780.00 lb 18.39 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.39 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



J DO 1

NON-HAZARDOUS WASTE MANIFEST

0645155

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 07/09/08 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons 7-Yards 1-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve [Signature] | | Signature [Signature] | | Month Day Year [] [] [] | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name JOSE W Ruiz | | Signature [Signature] | | Month Day Year [] [] [] | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year [] [] [] | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name JOSE W Ruiz | | Signature [Signature] | | Month Day Year [] [] [] | |

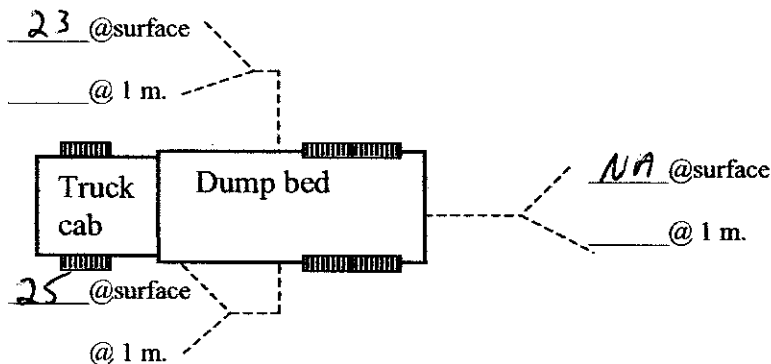
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0825 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

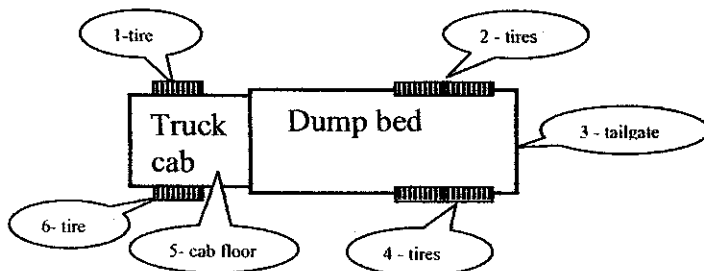
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17.0 | 563.4 |

5004

503232

FOOTHILLS LANDFILL
8700 HIGHWAY 92
GOLDEN
CO
804003
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

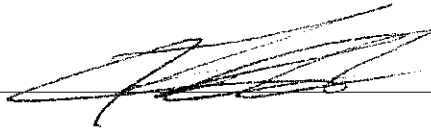
Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 555666 | GRID 0000 |
| WEIGHMASTER 5500056 Barbara Jo E | | |
| DATE IN 21 August 2007 | | TIME IN 8:57 am |
| DATE OUT 21 August 2007 | | TIME OUT 9:11 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 643156 | ORIGIN | |

GC Gross Weight 71,580.00 lb
 Tare Weight 35,640.00 lb
 Net Weight 35,940.00 lb 17.92 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 17.92 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

J 004

0645156

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () 303-273-3998 | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 6900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 19. Total Quantity D-Drums 18 Y-Yards 4 T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month 8 Day 21 Year 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Santoso Vargas | | Signature | | Month 8 Day 21 Year 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

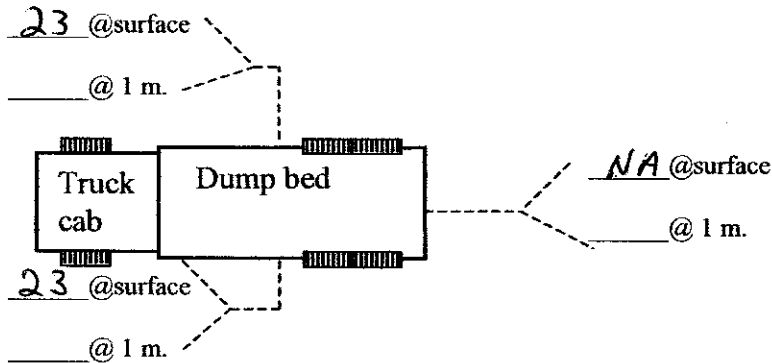
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0900 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

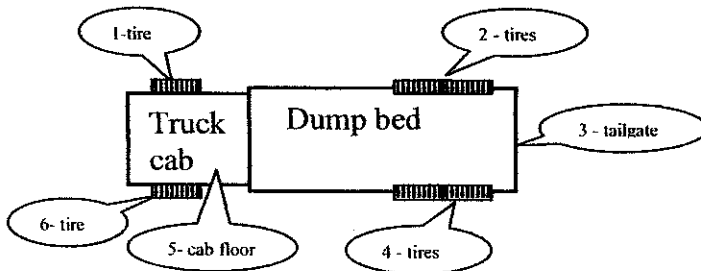
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

509241 23

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE1191E

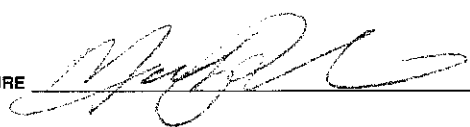
| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 555375 | | 0000 | |
| WEIGHMASTER | | | | | |
| 8500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 9:19 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 9:19 am | | |
| VEHICLE | | | ROLL OFF | | |
| YE1191E | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645157 | | | | | |

CO Gross Weight 76,440.00 lb
 Tare Weight 35,100.00 lb Inbound -
 Net Weight 41,340.00 lb 20.67 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.67 | TN | SUB-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE 



NON-HAZARDOUS WASTE MANIFEST

Truck 23

0645157

Please print or type

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 6. Phone () | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | 0 Drums | 0 Gallons | |
| a. Norm Soil | | CO L67 070908 Y511915 | | 18 | Y | Y-Yards | Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name MARK PHELAN | | | | Signature | | Month 8 | Day 21 | Year 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 8 | Day 21 | Year 07 |

TRANSPORTER #2

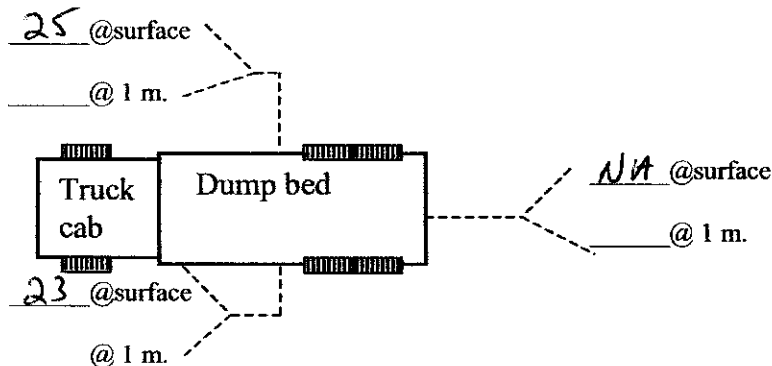
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0905 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

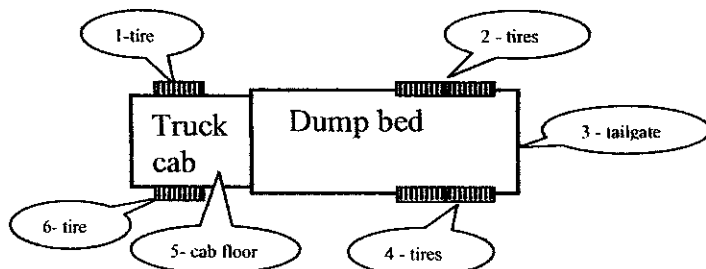
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | X 0 cpm | B 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

24

503246

FOOTHILLS LANDFILL
 1900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585680 | 0000 |
| WEIGHMASTER | | |
| 1000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 9:24 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 9:24 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 18-11-15 | | |

02 Gross Weight 35,520.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 38,320.00 lb 19.16 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.16 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

Truck 24
0645138

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|---|---|---|--|-----|------|--------------------|-----------------|--|--|---------|-----------|----|---|---------|--------|--|--|--|--|--|--|--|--|--|--|--|--|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3090 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3090 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Phone () | | | 6. Phone () | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name Joe Griede | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Illinois St Golden, CO ACCOUNT # 80-900 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Norm Soil | | CO 167 070908 Y511315 | | <table border="1"> <thead> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <th></th> <th></th> <th>D Drums</th> <th>G Gallons</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>Y</td> <td>Y-Yards</td> <td>T-Tons</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | D Drums | G Gallons | 18 | Y | Y-Yards | T-Tons | | | | | | | | | | | | |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | D Drums | G Gallons | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Y | Y-Yards | T-Tons | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| Joe Griede | | [Signature] | | 8 11 97 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ken Shannon | | [Signature] | | 8 21 07 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TRANSPORTER #1

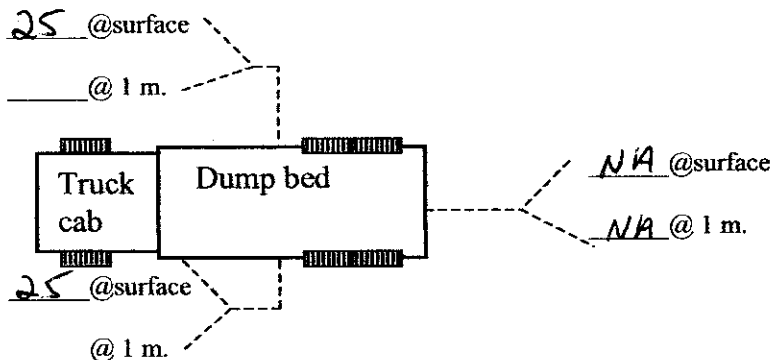
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0910 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

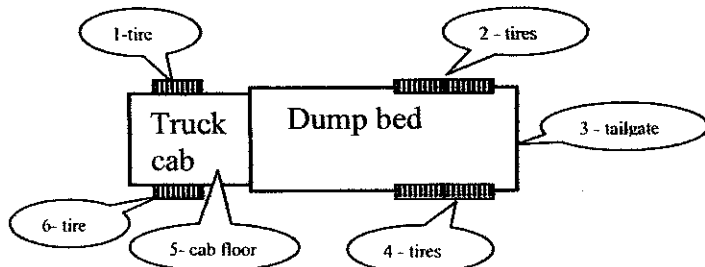
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

FOOTHILL LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

12 503251

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585485 | 0000 |
| WEIGHMASTER | | |
| R500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 7:28 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 7:38 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| Y511915 | | |

Gross Weight 76,520.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 38,820.00 lb 19.41 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.41 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

12
0645159

Please print or type.

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | | |
| 7. Transporter #1 Company Name Greene Trucking, AID. | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footfalls Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CC L67 070908 Y511915 | | 19. Total Quantity 0 Drums 0 Gallons Y-Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benson | | Signature | | Month Day Year 8 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 8 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 6 5 07 | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

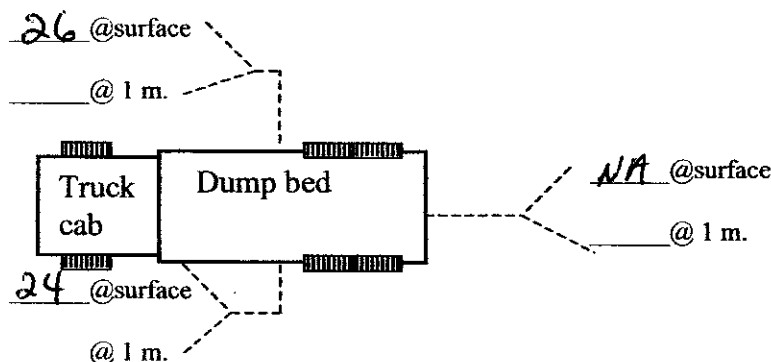
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0918 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

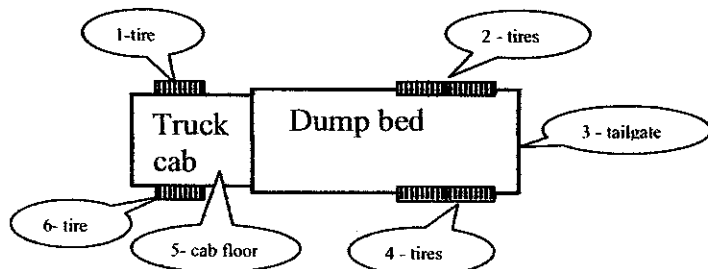
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503257

8

FOOTHILLS LANDFILL
 2900 HIGHWAY 50
 GOLDEN
 CO
 80600
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|----------------------|--|--------|----------|----------|--|
| SITE | | TICKET | | GRID | |
| 01 | | E33671 | | 0000 | |
| WEIGHMASTER | | | | | |
| BSC0052 Barbara Jo B | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 7:37 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 7:37 am | | |
| VEHICLE | | | | ROLL OFF | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645180 | | | | | |

00 Gross Weight 75.220.00 lb
 Tare Weight 36.540.00 lb Inbound -
 Net Weight 38.680.00 lb 19.34 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.34 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |



[Handwritten signature]

SIGNATURE _____

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



NON-HAZARDOUS WASTE MANIFEST

Truck 8
0645160

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 Y Y-Yards | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve B. Brown | | | | 12 21 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | | | 08 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #2

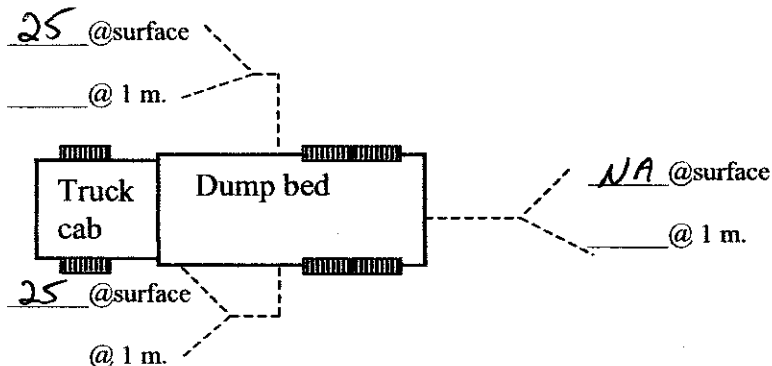
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0926 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: 13

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

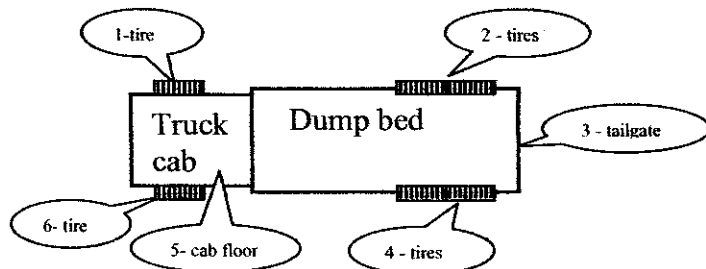
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503261 13

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585674 | 0000 |
| WEIGHMASTER | | |
| 0500056 Barbera To S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 9:46 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 9:46 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645141 | | |

00 Gross Weight 72,660.00 lb
 Tare Weight 35,700.00 lb Inbound --
 Net Weight 36,960.00 lb 18.48 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 18.48 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

13
0645161

Please print or type.

| | | | | | | | | | | |
|--|--|--|--|---|------|--------------------|-----------|-------|-----|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 4. Phone () 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3098 | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 95 Golden, CO ACCOUNT # 980603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | 20. Unit | | | |
| | | | | No. | Type | D Drums | G Gallons | | | |
| | | | | | 18 | Y-Yards | T-Tons | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | |
| Printed/Typed Name Steve Schinner | | | | Signature | | Month | Day | Year | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name Rafael Colera | | Signature | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year | | |

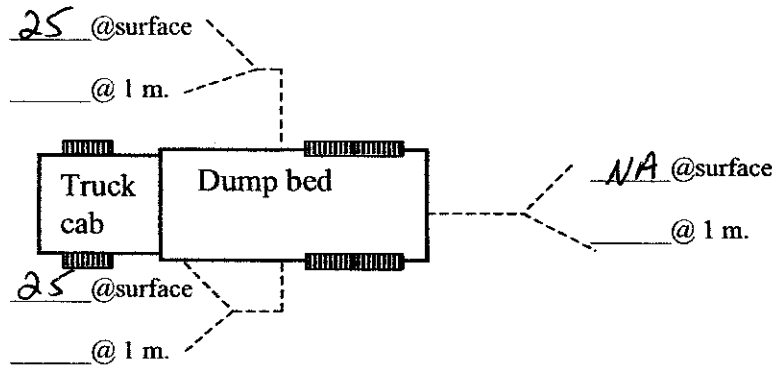
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0932 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 461

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

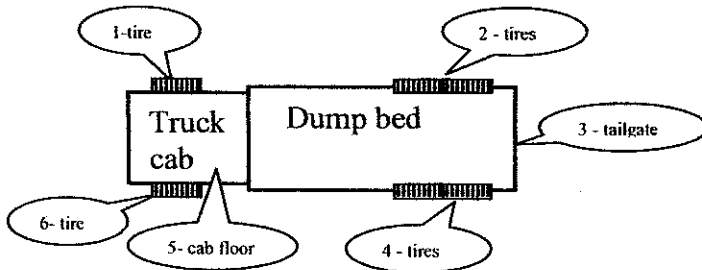
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

303236 461

FOOTHILLS LANDFILL
8900 HIGHWAY 93
GOLDEN
CO
760600
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|---------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 555277 | | 0000 | |
| WEIGHMASTER | | | | | |
| 500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 7:51 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 9:51 am | | |
| VEHICLE | | | ROLL OFF | | |
| YE11915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645142 | | | | | |

00 Gross Weight 74,720.00 lb
Tare Weight 34,260.00 lb
Net Weight 40,460.00 lb 20.23 TN

Inbound ~

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 20.23 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645162

Please print or type.

| | | | | | |
|--|--|---|--|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960609 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| | | | | D-Drums G-Gallons | |
| a. Norm Soil | | CO L87 070908 Y511915 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Blum | | [Signature] | | 8 10 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Mike Murray | | [Signature] | | 6 10 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| [Signature] | | [Signature] | | 8 10 97 | |

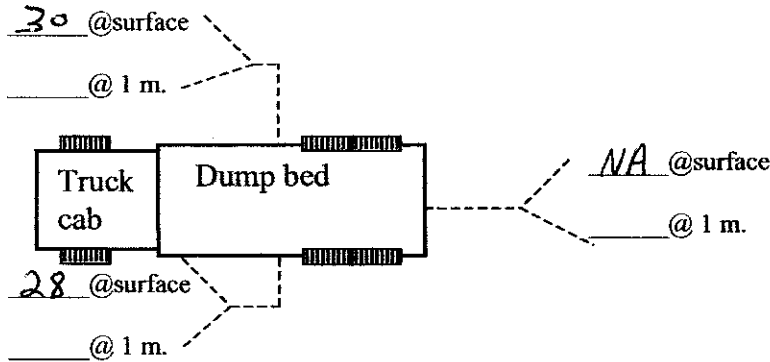
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 0946 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: JD 01

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

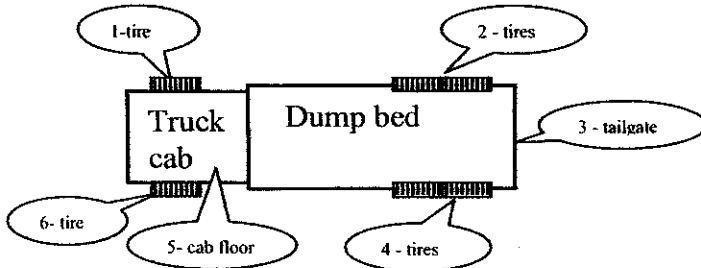
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|--|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503266 TPO 1

FOOTHILLS LANDFILL
 8700 HIGHWAY 70
 GOLDEN
 CO
 804003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 1511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 535701 | | 0000 | |
| WEIGHMASTER | | | | | |
| 5500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 10:03 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 10:03 am | | |
| VEHICLE | | | ROLL OFF | | |
| 7511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645183 | | | | | |

Gross Weight 80,300.00 lb
 Tare Weight 25,580.00 lb
 Net Weight 54,720.00 lb 22.36 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.36 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

JDO1
0645163

Please print or type.

| | | | | | | | | | |
|--|--|--|--|---|--|--------------------|--|-----------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3998 | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8000 Hwy 93 Golden, CO ACCOUNT # 960603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | No. Type | | D Drums G Gallons | | Y-Yards T-Tons | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Bertram | | | | Signature [Signature] | | | | Month Day Year 6 4 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name JOSE W Ruiz | | | | Signature [Signature] | | | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |

TRANSPORTER #2

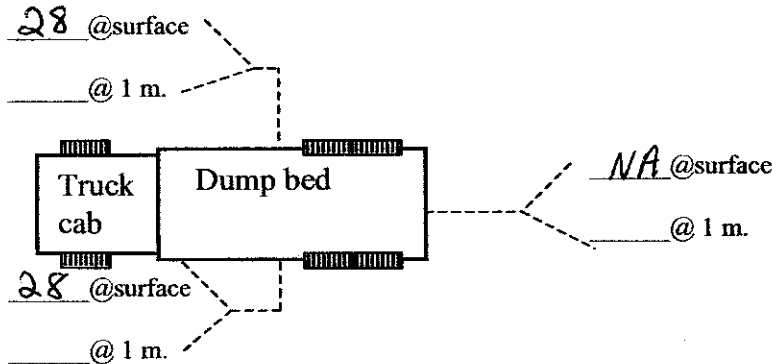
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1012 Surveyed by: CHicks / J Mattson

Trucking Company: Grieve Truck license plate no. /state: JD 04

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

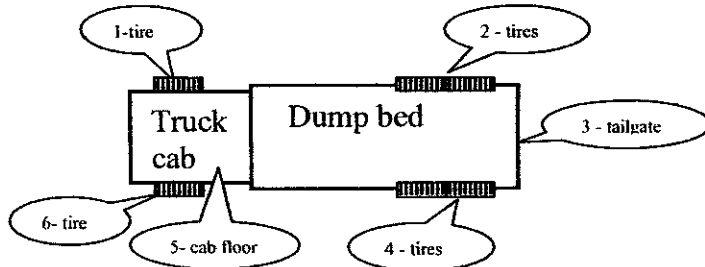
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

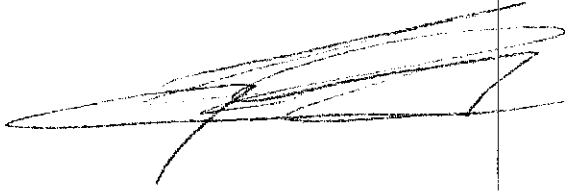
503288 34

FOOTHILLS LANDFILL
2900 HIGHWAY 93
GOLDEN
CO
80603
COLORADO SCHOOL OF MINES
1500 ALLENCIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 555717 | | 0000 | |
| WEIGHMASTER | | | | | |
| 5500055 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 10:32 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 10:32 am | | |
| VEHICLE | | | ROLL OFF | | |
| Y511915 | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645164 | | | | | |

Gross Weight 76,340.00 lb
Tare Weight 35,640.00 lb
Net Weight 40,700.00 lb 20.35 TN
Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|------|-------------------|------|-----------|-----|-------|
| 20.35 | TN | SU-COINT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |
|  | | | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

J004
0645164

Please print or type.

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|---------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 6. Phone () 303-273-3998 | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 960803 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | D-Drums |
| a. Norm Soil | | CO L67 070908 Y511915 | | | | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brannan | | | | Signature [Signature] | | Month 8 | Day 21 | Year 04 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name Santiago Vargas | | | | Signature [Signature] | | Month | Day | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

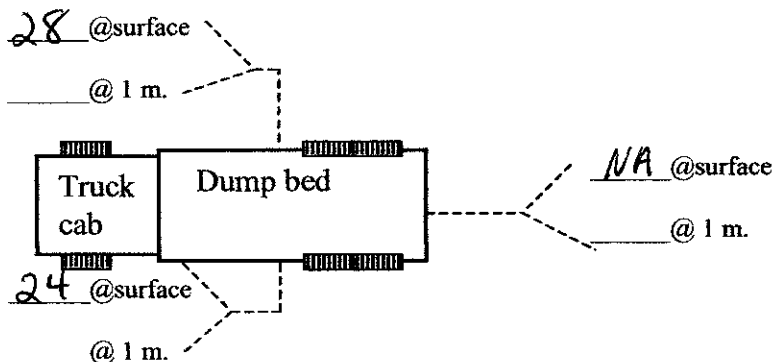
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1020 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 23

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

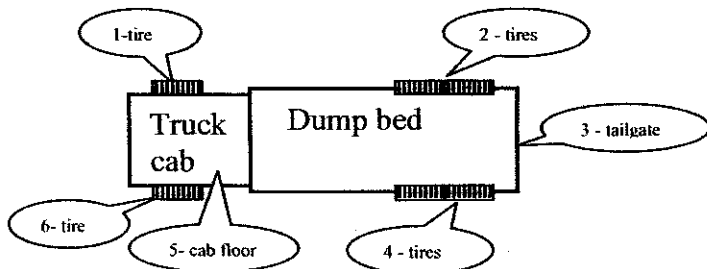
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|-----------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 $\mu\text{rem/hr}$ | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503291

23

FOOTHILLS LANDFILL
2700 HIGHWAY 93
GOLDEN
CO
80603
COLORADO SCHOOL OF MINES
1500 ILLINOIS ST
GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|---------|
| SITE | TICKET | GRID |
| 01 | 585724 | 7 75000 |
| WEIGHMASTER | | |
| 3500056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 10:42 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 10:42 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645125 | | |

00 Gross Weight 84,880.00 lb
Tare Weight 35,100.00 lb Inbound -
Net Weight 49,780.00 lb 24.59 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.87 | TN | 34-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



23

NON-HAZARDOUS WASTE MANIFEST

0645165

Please print or type

| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | | | | | | | |
|--|------|---|-----------------|---|--|-----|------|--------------------|-----------------|--|--|---------|-----------|--|--|---------|--------|
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 | | | | | | | | | | | | | |
| 4. Phone () 303-273-3998 | | | | 6. Phone () 303-273-3998 | | | | | | | | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8900 Hwy 93 Golden, CO ACCOUNT # 000603 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | | | | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | | | | | | | | | | | | |
| a. Norm Soil | | CO 107 070908 Y511915 | | <table border="1"> <tr> <th>No.</th> <th>Type</th> <th>19. Total Quantity</th> <th>20. Unit Wt/Vol</th> </tr> <tr> <td></td> <td></td> <td>0 Drums</td> <td>0 Gallons</td> </tr> <tr> <td></td> <td></td> <td>Y-Yards</td> <td>T-Tons</td> </tr> </table> | | No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | 0 Drums | 0 Gallons | | | Y-Yards | T-Tons |
| No. | Type | 19. Total Quantity | 20. Unit Wt/Vol | | | | | | | | | | | | | | |
| | | 0 Drums | 0 Gallons | | | | | | | | | | | | | | |
| | | Y-Yards | T-Tons | | | | | | | | | | | | | | |
| b. | | | | | | | | | | | | | | | | | |
| c. | | | | | | | | | | | | | | | | | |
| d. | | | | | | | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| Steve Benken | | | | 8 3 07 | | | | | | | | | | | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| MARK PHELON | | | | 8 2 07 | | | | | | | | | | | | | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 26. Discrepancy Indication Space | | | | | | | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | | | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | | | | | | | | | | | | | |
| B. J. ... | | | | 8 2 07 | | | | | | | | | | | | | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

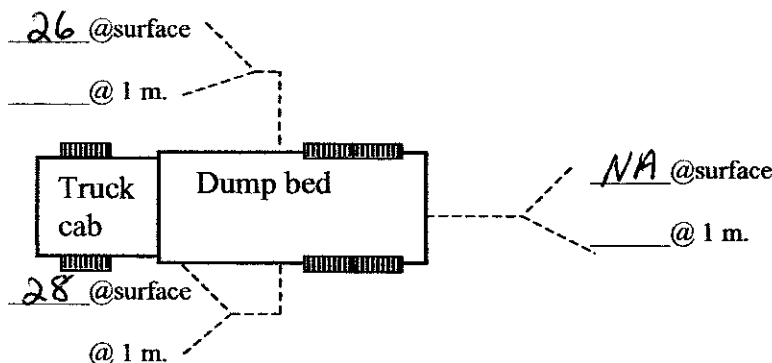
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1029 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 24

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

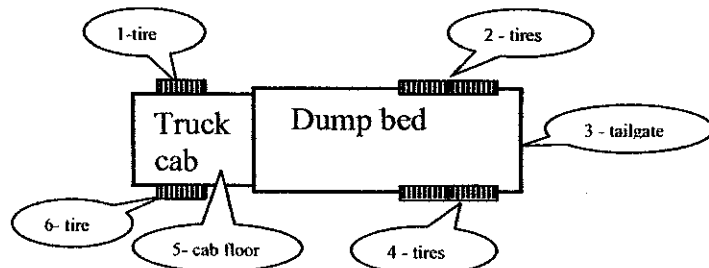
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503298-24

FOOTWALL LANDFILL
 8900 HIGHWAY 93
 GOLDEN CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE1191E

| | | | | | |
|----------------------|--|--------|----------|------|--|
| SITE | | TICKET | | GRID | |
| 01 | | 525731 | | 0000 | |
| WEIGHMASTER | | | | | |
| 1500056 Barbara Jo S | | | | | |
| DATE IN | | | TIME IN | | |
| 21 August 2007 | | | 10:50 am | | |
| DATE OUT | | | TIME OUT | | |
| 21 August 2007 | | | 10:50 am | | |
| VEHICLE | | | ROLL OFF | | |
| YE1191E | | | | | |
| REFERENCE | | ORIGIN | | | |
| 645156 | | | | | |

GC Gross Weight 35,480.00 lb
 Tare Weight 37,200.00 lb
 Net Weight 48,250.00 lb 24.14 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.14 | TN | SW-COAT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE *[Signature]*



NON-HAZARDOUS WASTE MANIFEST

0645166

24

Please print or type

| | | | | | | | | | | | |
|--|--|---|--|---|--|--------------------|--|-----------------|--|----------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | | | | |
| 4. Phone () | | 6. Phone () | | | | | | | | | |
| 7. Transporter #1 Company Name Soebehed Trucking | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Golden, CO ACCOUNT # 983903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 - 611315 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | | | |
| | | | | No. Type | | D-Drums C-Gallons | | C-Gallons | | | |
| | | | | 18 Y | | Y-Yards | | Tons | | | |
| b. | | | | | | | | | | | |
| c. | | | | | | | | | | | |
| d. | | | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | | | |
| Printed/Typed Name Steve Graham | | | | Signature | | | | Month Day Year | | | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name Ken Shannon | | | | Signature | | Month Day Year | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | | | |

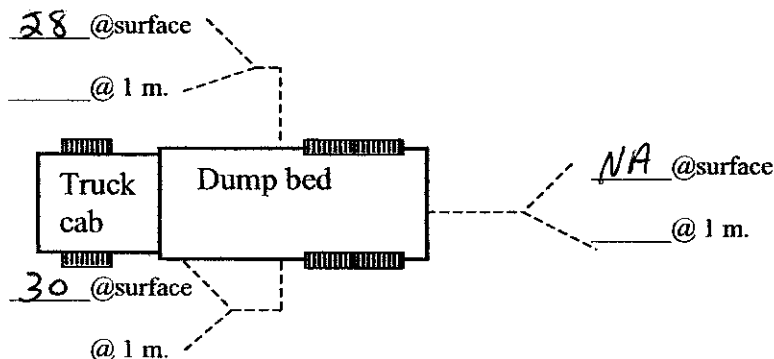
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1035 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

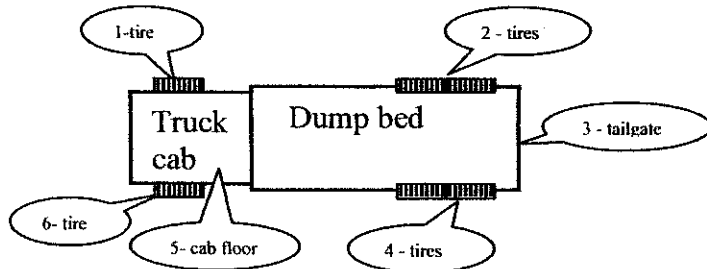
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 262 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

503301 12

FOOTMILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80400
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 505734 | 0000 |
| WEIGHMASTER | | |
| S000056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 10:55 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 10:55 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645167 | | |

Gross Weight 94,620.00 lb
 Tare Weight 37,700.00 lb
 Net Weight 46,920.00 lb 23.46 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.46 | TN | SU-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0645167

Please print or type.

| | | | | | | | | | |
|--|--|--|--|--|--|--------------------|--|------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 6. Phone () | | | | | |
| 7. Transporter #1 Company Name GTC Trucking Inc. #12 | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8300 Hwy 93 Golden, CO ACCOUNT # 000600 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | | |
| 16. Waste Shipping Name and Description a. Norm Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO L67 070908 Y511915 | | 18. Containers | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| | | | | No. Type | | D Drums 3 Gallons | | Y-Yards T-Tons | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature [Signature] | | | | Month Day Year | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name [Signature] | | | | Signature [Signature] | | | | Month Day Year 8 21 02 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | | |
| Printed/Typed Name | | | | Signature | | | | Month Day Year 8 21 02 | |

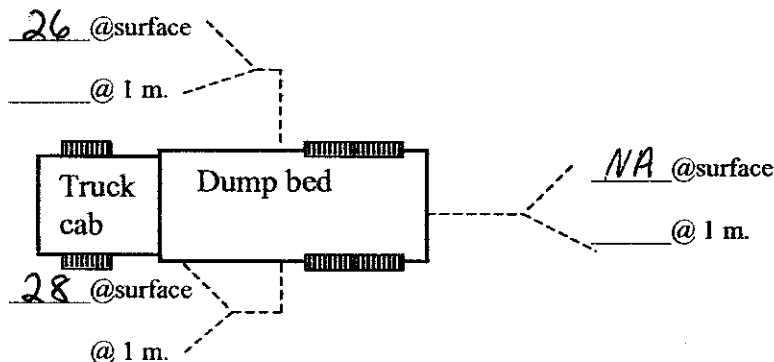
TRANSPORTER #2

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/21/07 1042 Surveyed by: CHicks / J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

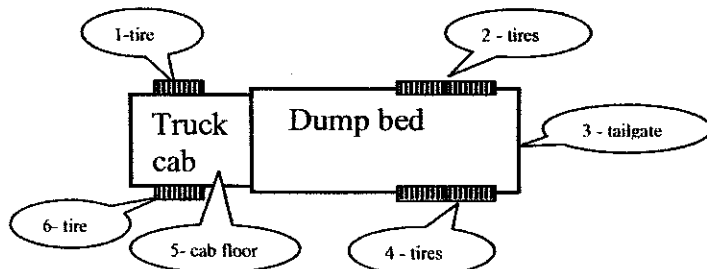
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | 0 cpm | 202 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17.0 | 563.4 | |

502335

8

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|----------------------|----------|------|
| SITE | TICKET | GRID |
| 01 | 585738 | 0000 |
| WEIGHMASTER | | |
| PSC0056 Barbara Jo S | | |
| DATE IN | TIME IN | |
| 21 August 2007 | 11:01 am | |
| DATE OUT | TIME OUT | |
| 21 August 2007 | 11:01 am | |
| VEHICLE | ROLL OFF | |
| Y511915 | | |
| REFERENCE | ORIGIN | |
| 645168 | | |

Gross Weight 63,580.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 47,040.00 lb 23.52 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 23.52 | TN | SW-COFT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

8



NON-HAZARDOUS WASTE MANIFEST

0645188

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3698 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3698 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 3900 Hwy 33 Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description a. Iron Sulfide | | 17. Allied Waste Approval # and Exp. Date CO 187-070000-13-11-15 | | 18. Containers No. Type 18 Y | |
| b. | | | | 19. Total Quantity 0.00 tons | |
| c. | | | | 20. Unit Tons | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Johnson | | Signature | | Month Day Year 8 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 08 21 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

COM000033

Stockpile A

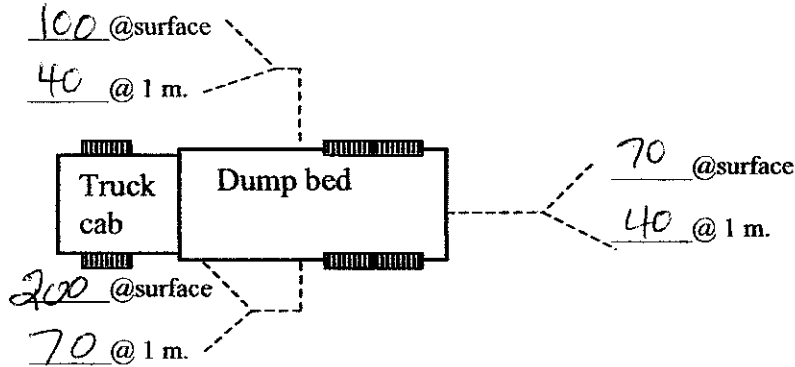
Truck Departure Record Form

[illegible]

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 0845 Surveyed by: J Mattson
 Trucking Company: Bellio Trucking Truck license plate no. /state: 35 COA070031

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

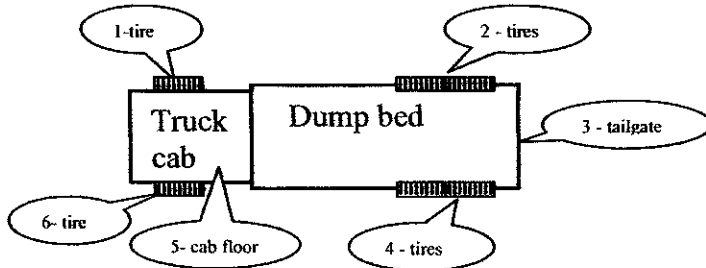
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = 0.1

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | <220 | | <220 | | <2200 | | <2200 |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 μrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

Truck 35

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

EPA 700-22 (Rev. 3-05)

Form Approved. OMB No. 2050-0039

Form Approved. OMB No. 2050-0039

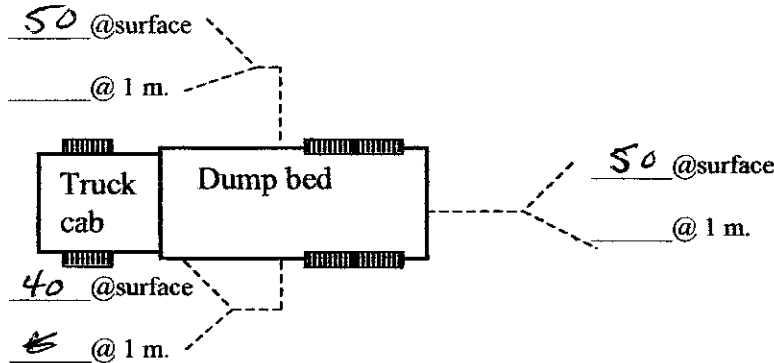
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number 000010629170 | | 2. Page 1 of 1 | 3. Emergency Response Phone (800) 483-3718 | | 4. Manifest Tracking Number 000927147 FLE | |
|--|---|--|------|--------------------|--|-----------------|---|--|
| 5. Generator's Name and Mailing Address Colorado School of Mines 1500 Illinois Avenue Golden, CO 80401 Generator's Phone: 303 239-5193 | | | | | Generator's Site Address (if different than mailing address) | | | |
| 6. Transporter 1 Company Name Pella Trucking Inc. | | | | | U.S. EPA ID Number 000003718200 | | | |
| 7. Transporter 2 Company Name | | | | | U.S. EPA ID Number | | | |
| 8. Designated Facility Name and Site Address West Plains Dea 718411 10000 West Highway 48 West Plains, MO 65759 Facility's Phone: 417 336-2231 | | | | | U.S. EPA ID Number 0000001390134 | | | |
| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
| | | No. | Type | | | | | |
| 1. | HAZARDOUS WASTE (SOLVENTS) - F001, F002, F003, F004, F005, F006, F007, F008, F009, F010, F011, F012, F013, F014, F015, F016, F017, F018, F019, F020, F021, F022, F023, F024, F025, F026, F027, F028, F029, F030, F031, F032, F033, F034, F035, F036, F037, F038, F039, F040, F041, F042, F043, F044, F045, F046, F047, F048, F049, F050, F051, F052, F053, F054, F055, F056, F057, F058, F059, F060, F061, F062, F063, F064, F065, F066, F067, F068, F069, F070, F071, F072, F073, F074, F075, F076, F077, F078, F079, F080, F081, F082, F083, F084, F085, F086, F087, F088, F089, F090, F091, F092, F093, F094, F095, F096, F097, F098, F099, F100, F101, F102, F103, F104, F105, F106, F107, F108, F109, F110, F111, F112, F113, F114, F115, F116, F117, F118, F119, F120, F121, F122, F123, F124, F125, F126, F127, F128, F129, F130, F131, F132, F133, F134, F135, F136, F137, F138, F139, F140, F141, F142, F143, F144, F145, F146, F147, F148, F149, F150, F151, F152, F153, F154, F155, F156, F157, F158, F159, F160, F161, F162, F163, F164, F165, F166, F167, F168, F169, F170, F171, F172, F173, F174, F175, F176, F177, F178, F179, F180, F181, F182, F183, F184, F185, F186, F187, F188, F189, F190, F191, F192, F193, F194, F195, F196, F197, F198, F199, F200, F201, F202, F203, F204, F205, F206, F207, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217, F218, F219, F220, F221, F222, F223, F224, F225, F226, F227, F228, F229, F230, F231, F232, F233, F234, F235, F236, F237, F238, F239, F240, F241, F242, F243, F244, F245, F246, F247, F248, F249, F250, F251, F252, F253, F254, F255, F256, F257, F258, F259, F260, F261, F262, F263, F264, F265, F266, F267, F268, F269, F270, F271, F272, F273, F274, F275, F276, F277, F278, F279, F280, F281, F282, F283, F284, F285, F286, F287, F288, F289, F290, F291, F292, F293, F294, F295, F296, F297, F298, F299, F300, F301, F302, F303, F304, F305, F306, F307, F308, F309, F310, F311, F312, F313, F314, F315, F316, F317, F318, F319, F320, F321, F322, F323, F324, F325, F326, 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S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 0900 Surveyed by: J Mattson

Trucking Company: Bellco Trucking Truck license plate no. /state: 19 CO A110812

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

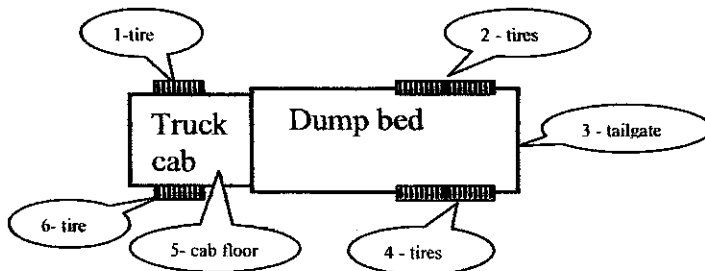
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = 0

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|---------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

Tack 9

GENERATOR

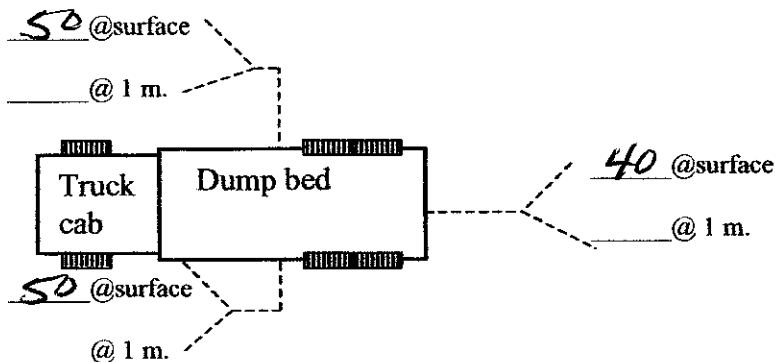
TRANSPORTER INT'L

DESIGNATED FACILITY

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 0900 Surveyed by: J Mattson
 Trucking Company: Bellio Trucking Truck license plate no. /state: 14 CO A100 898

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 μrem)
 10 mrem/hr at 1 m (10,000 μrem)
 (If surface is <10mrem/hr, survey is complete.)

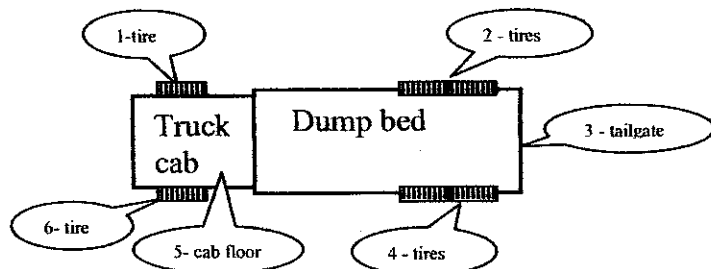
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = 0

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2
 Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 μrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

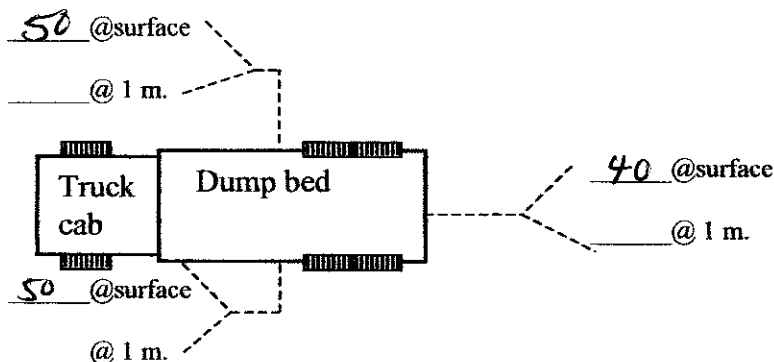
Truck 14

| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number 0000010628170 | 2. Page 1 of 1 | 3. Emergency Response Phone (800) 489-3718 | 4. Manifest Tracking Number 000927143 FLE | |
|--|--|--|--------------------------|---|--|-----------------|
| 5. Generator's Name and Mailing Address Colorado School of Mines 1600 Illinois Avenue Golden, CO 80401 Generator's Phone: (303) 273-1998 | | Generator's Site Address (if different than mailing address) | | | | |
| 6. Transporter 1 Company Name Peter Trucking Inc | | U.S. EPA ID Number 0000003718200 | | | | |
| 7. Transporter 2 Company Name | | U.S. EPA ID Number | | | | |
| 8. Designated Facility Name and Site Address Dean Industries Inc 102405 East Highway 20 Greeley, CO 80639 Facility's Phone: (970) 324-2792 | | U.S. EPA ID Number 0000001301404 | | | | |
| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
| | | No. | Type | | | |
| | 1. HAZARDOUS WASTE, REGULATED, N/A, NONE | 1 | 7D | 123 | Y | NONE |
| | 2. | | | | | |
| | 3. | | | | | |
| 4. | | | | | | |
| 14. Special Handling Instructions and Additional Information EPA 700-22 (Rev. 3-05) | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | |
| Generator's/Offor's Printed/Typed Name Steve Berkman | | Signature [Signature] | | | Month 08 | Day 20 |
| 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. | | Port of entry/exit: Date leaving U.S.: | | | Year 2009 | |
| TRANSPORTER | 17. Transporter Acknowledgment of Receipt of Materials | | | | | |
| | Transporter 1 Printed/Typed Name Steve Berkman | | Signature [Signature] | | Month 08 | Day 20 |
| DESIGNATED FACILITY | Transporter 2 Printed/Typed Name | | Signature | | Month | Day |
| | | | | | Year | |
| 18. Discrepancy | | | | | | |
| 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | | |
| Manifest Reference Number: | | | | | | |
| 18b. Alternate Facility (or Generator) U.S. EPA ID Number | | | | | | |
| Facility's Phone: | | | | | | |
| 18c. Signature of Alternate Facility (or Generator) Month Day Year | | | | | | |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | |
| 1. | | 2. | | 3. | | 4. |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | |
| Printed/Typed Name | | Signature | | | Month | Day |
| | | | | | Year | |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 0930 Surveyed by: J. Matheson
 Trucking Company: Bellio Truck license plate no. /state: 21 CO 197KGV

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

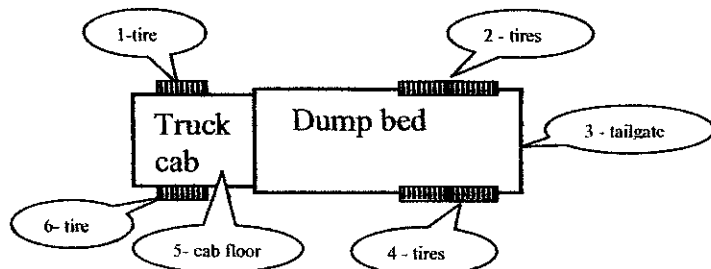
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = 0

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|---------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6% | 13.9% | |
| MDA | NA | 43.5 | 553.0 | |

Truck 21

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

EPA 8700-22

Form Approved

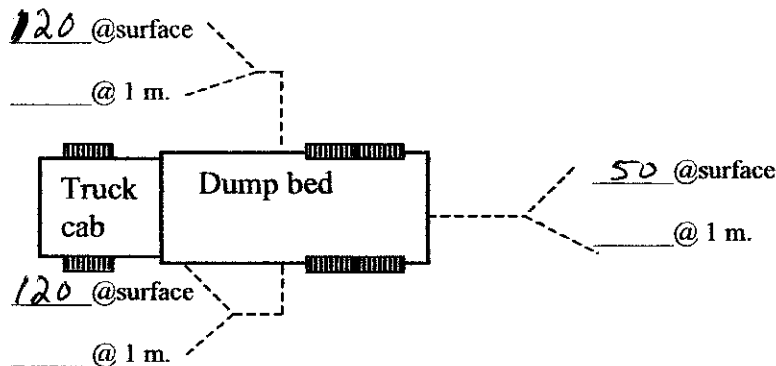
OMB No. 2050-0039

| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest Tracking Number | |
|---|--|---|--------------|---|-----------------------------|-----------------|
| | | 00000000000000000000 | 1 | 800-424-9333 | 000927144 FLE | |
| 5. Generator's Name and Mailing Address | | Generator's Site Address (if different than mailing address) | | | | |
| 1500 Adams Avenue Cincinnati, OH 45202 | | | | | | |
| Generator's Phone: 513-273-1444 | | | | | | |
| 6. Transporter 1 Company Name | | U.S. EPA ID Number | | | | |
| EPA Transporters Inc. | | 000000000000000000 | | | | |
| 7. Transporter 2 Company Name | | U.S. EPA ID Number | | | | |
| | | | | | | |
| 8. Designated Facility Name and Site Address | | U.S. EPA ID Number | | | | |
| 10000 East Highway 99 New York, NY 10001 | | 000000000000000000 | | | | |
| Facility's Phone: (212) 386-2200 | | | | | | |
| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
| | | No. | Type | | | |
| | 1. HAZARDOUS WASTE, UNIDENTIFIED, UNCLASSIFIED, UNLabeled, UNPLACARDED | 1 | 46 | 10 | 7 | HAZ |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |
| 14. Special Handling Instructions and Additional Information | | | | | | |
| 1. 0000000000 | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | |
| Generator's/Offor's Printed/Typed Name | | Signature | | | Month | Day Year |
| Steve Beckman for EPA Hazardous Waste | | | | | 08 | 10 2007 |
| 16. International Shipments | | <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. | | Port of entry/exit: _____ Date leaving U.S.: _____ | | |
| 17. Transporter Acknowledgment of Receipt of Materials | | | | | | |
| Transporter 1 Printed/Typed Name | | Signature | | | Month | Day Year |
| Transporter 2 Printed/Typed Name | | Signature | | | Month | Day Year |
| 18. Discrepancy | | | | | | |
| 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | | |
| Manifest Reference Number: _____ | | | | | | |
| 18b. Alternate Facility (or Generator) | | U.S. EPA ID Number | | | | |
| Facility's Phone: _____ | | | | | | |
| 18c. Signature of Alternate Facility (or Generator) | | Signature | | | Month | Day Year |
| | | | | | | |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | |
| 1. | | 2. | | 3. | | 4. |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | |
| Printed/Typed Name | | Signature | | | Month | Day Year |
| | | | | | | |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 1020 Surveyed by: CHicks / J Mattson
 Trucking Company: Beliro Truck license plate no. /state: 16 CO A114674

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

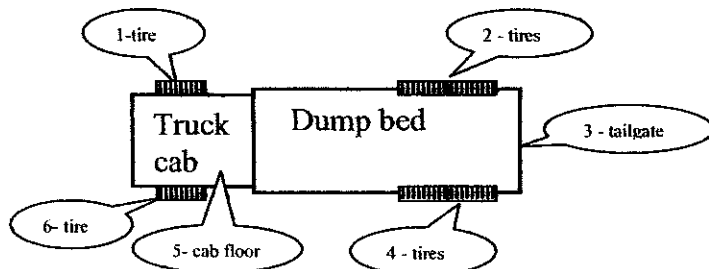
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|---------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

Truck 16

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

091570833

APW 8/27/82

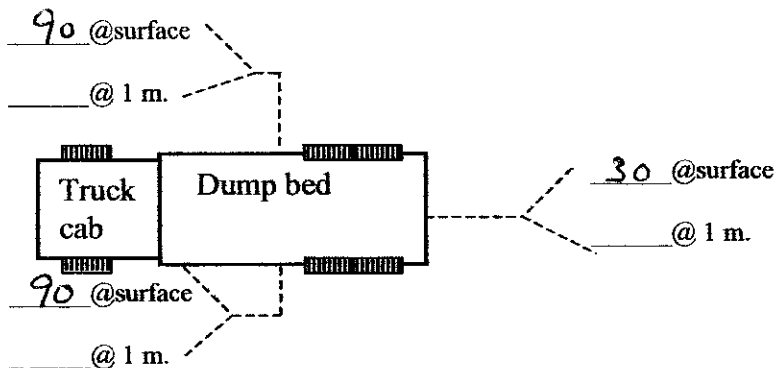
Form Approved. OMB No. 2050-0039

| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number 000010628170 | 2. Page 1 of 1 | 3. Emergency Response Phone 0000483318 | 4. Manifest Tracking Number 000927141 FLE | |
|---|--|--|----------------|---|--|-----------------|
| 5. Generator's Name and Mailing Address Colorado School of Mines 1500 Illinois Avenue Golden, CO 80401 | | Generator's Site Address (if different than mailing address) | | | | |
| Generator's Phone: 303-239-8200 | | U.S. EPA ID Number 000010628170 | | | | |
| 6. Transporter 1 Company Name Dellinger Transporting Inc. | | U.S. EPA ID Number | | | | |
| 7. Transporter 2 Company Name | | U.S. EPA ID Number | | | | |
| 8. Designated Facility Name and Site Address Colorado School of Mines 1500 Illinois Avenue, 90 Golden, CO 80401 | | U.S. EPA ID Number 000010628170 | | | | |
| Facility's Phone: 303-239-8200 | | | | | | |
| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. Type | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
| | 1. 100% HAZARDOUS WASTE, FLUORANTHRAcene, 6.1A, POISON | 1 EP | | 13 | 100 LB | NONE |
| | 2. | | | | | |
| | 3. | | | | | |
| | 4. | | | | | |
| 14. Special Handling Instructions and Additional Information 0000483318 | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | |
| Generator's/Officer's Printed/Typed Name Steve Gorkman, Director/owner | | Signature | | | Month Day Year 08 20 87 | |
| 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____ | | | | | | |
| 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Crawford Brothers Signature Month Day Year 08 20 87 Transporter 2 Printed/Typed Name Signature Month Day Year | | | | | | |
| 18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) Month Day Year | | | | | | |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 2. 3. 4. | | | | | | |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year | | | | | | |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 1034 Surveyed by: CHicks/J Matkon
 Trucking Company: Bellro Truck license plate no. /state: 13 COA094300

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

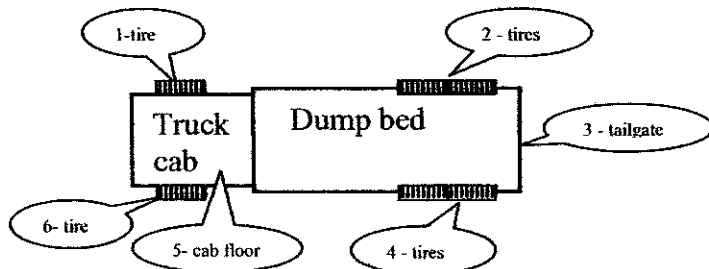
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|---------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.8 cpm | |
| MDA | NA | 43.5 | 553.0 | |

[illegible]

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 1410

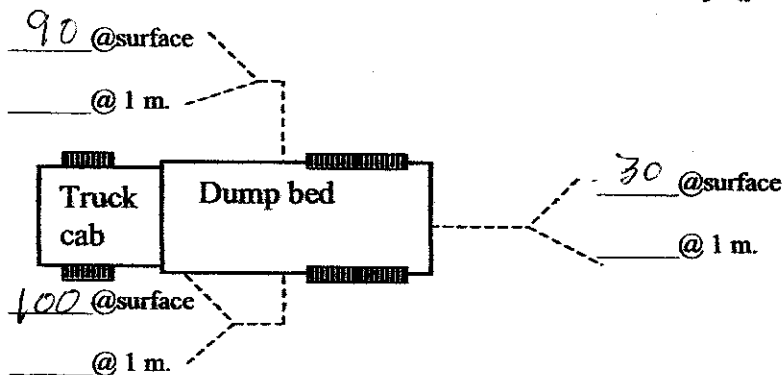
Surveyed by: CHicks/J Mathson

Trucking Company: Bellio

Truck license plate no./state: 35 Trailer 10

Gamma Dose Rate Survey ($\mu\text{rem/hr}$)

CO A070031



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 μrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 μrem)
10 mrem/hr at 1 m (10,000 μrem)
(If surface is <10mrem/hr, survey is complete.)

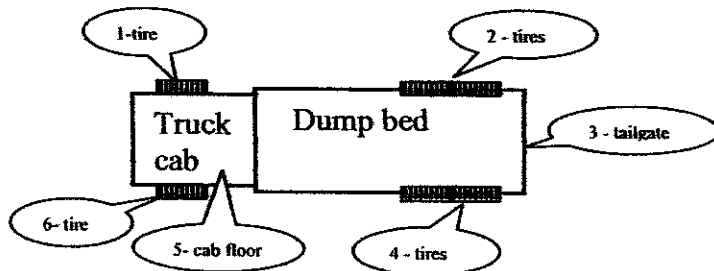
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|---|-----|
| < 50 μrem (<0.05 mrem) | 0 |
| 50-149 μrem (0.05-0.15 mrem) | 0.1 |
| 150-249 μrem (0.15-0.25) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm^2

Beta: 2200 dpm/100 cm^2

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 | cpm/100 cm^2 | dpm/100 cm^2 |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|--------------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 μrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

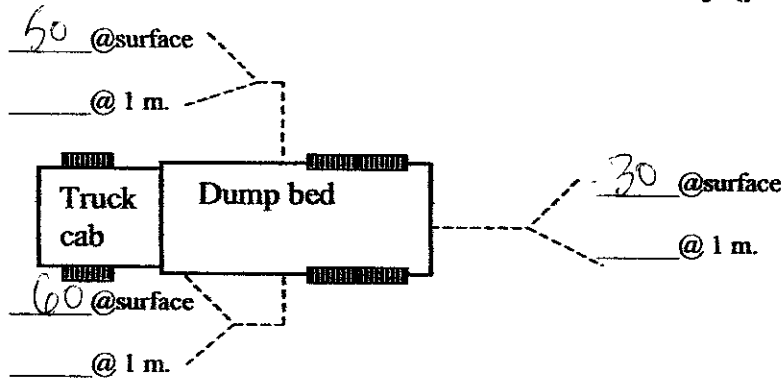
Track 35

| | | | | | | | | | |
|---|---|--|--|-------------------|--|---------------------------------|---|----------------------------|-----------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number C O D U 1 0 5 2 0 1 7 0 | | 2. Page 1 of 1 | 3. Emergency Response Phone (800) 433-9718 | | 4. Manifest Tracking Number 000927151 FLE | | |
| 5. Generator's Name and Mailing Address Colorado School of Mines 1500 Illinois Avenue Golden, CO 80401 Generator's Phone: 303-273-3938 | | | | | Generator's Site Address (if different than mailing address) | | | | |
| 6. Transporter 1 Company Name Rothco Trucking Inc. | | | | | U.S. EPA ID Number 0 0 0 9 9 9 7 7 8 2 0 0 | | | | |
| 7. Transporter 2 Company Name | | | | | U.S. EPA ID Number | | | | |
| 8. Designated Facility Name and Site Address Crown Plastics USA, Inc. 10000 East Highway 30 Crown Point, IN 46038 Facility's Phone: (773) 886-2298 | | | | | U.S. EPA ID Number 0 0 0 9 9 1 3 0 0 4 0 0 | | | | |
| GENERATOR | 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | | | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
| | | 1. HAZARDOUS WASTE, UNIDENTIFIED, UNCLASSIFIED, UNREACTED | | | No. | Type | 17 | 17 | None |
| | | 2. | | | | | | | |
| | | 3. | | | | | | | |
| | | 4. | | | | | | | |
| 14. Special Handling Instructions and Additional Information | | | | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | | | | |
| Generator's/Offor's Printed/Typed Name Steve Decker, President | | | | | Signature <i>[Signature]</i> | | Month Day Year 08 01 08 | | |
| TRANSPORTER | 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____ | | | | | | | | |
| | 17. Transporter Acknowledgment of Receipt of Materials | | | | | | | | |
| | Transporter 1 Printed/Typed Name Terry J. Carr | | | | | Signature <i>[Signature]</i> | | Month Day Year 07 20 07 | |
| Transporter 2 Printed/Typed Name | | | | | Signature | | Month Day Year | | |
| DESIGNATED FACILITY | 18. Discrepancy | | | | | | | | |
| | 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | | | | |
| | Manifest Reference Number: _____ | | | | | | | | |
| | 18b. Alternate Facility (or Generator) | | | | | U.S. EPA ID Number | | | |
| | Facility's Phone: _____ | | | | | | | | |
| 18c. Signature of Alternate Facility (or Generator) | | | | | | | | | Month Day Year |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | | | | |
| 1. | | 2. | | 3. | | 4. | | | |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | Month Day Year | | |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 1430 Surveyed by: CHicks/J Mathson
 Trucking Company: Bellio Truck license plate no. /state: 19 CO A110812

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

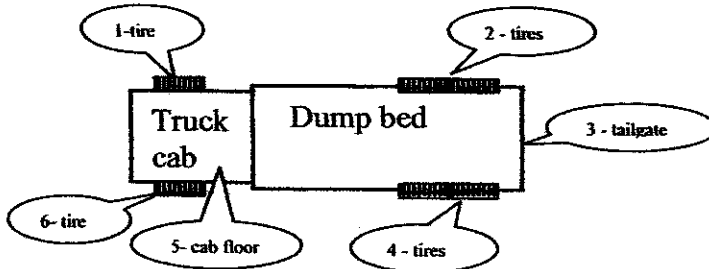
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

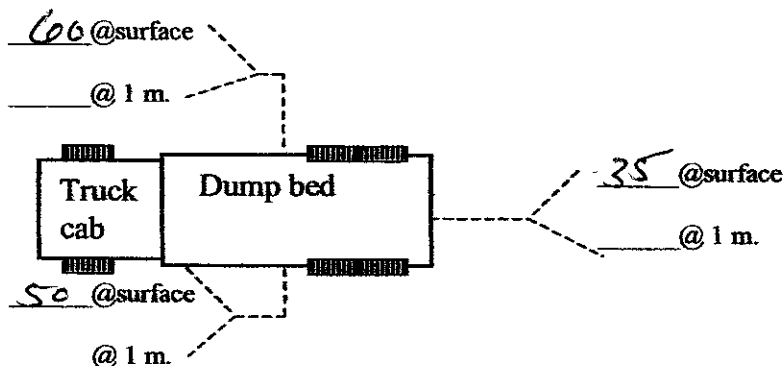
| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|---------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

| | | | | | | | | | | | |
|---|---|--|--|----------------|-----------|---|------|---|-------------------|-----------------|----------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number 00000000000000000000 | | 2. Page 1 of 1 | | 3. Emergency Response Phone (800) 483-3718 | | 4. Manifest Tracking Number 000927149 FLE | | | |
| | | 5. Generator's Name and Mailing Address Colorado School of Mines 1400 Illinois Avenue Golden, CO 80401 Generator's Phone: 303 273 4000 | | | | | | | | | |
| 6. Transporter 1 Company Name Baker Industries | | | | | | | | U.S. EPA ID Number 000000000000000000 | | | |
| 7. Transporter 2 Company Name | | | | | | | | U.S. EPA ID Number | | | |
| 8. Designated Facility Name and Site Address DOW CHEMICAL CO 1900 DOW DRIVE PO BOX 2000 PO BOX 2000 Troy, MI 48060-2000 Facility's Phone: (313) 250 2000 | | | | | | | | U.S. EPA ID Number 000000000000000000 | | | |
| GENERATOR | 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | | | | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | |
| | | 1. HAZARDOUS WASTE, NOT REGULATED, NA, NONE | | | | No. | Type | | | | |
| | | 2. | | | | | | | | | |
| | | 3. | | | | | | | | | |
| | | 4. | | | | | | | | | |
| 14. Special Handling Instructions and Additional Information | | | | | | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | | | | | | |
| Generator's/Officer's Printed/Typed Name Steve B. Baker for Baker Industries | | | | | | | | | | | |
| Signature <i>[Signature]</i> | | | | | | | | | | | |
| Month Day Year 07 10 2007 | | | | | | | | | | | |
| INT'L | 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.: | | | | | | | | | | |
| | Transporter signature (for exports only): | | | | | | | | | | |
| TRANSPORTER | 17. Transporter Acknowledgment of Receipt of Materials | | | | | | | | | | |
| | Transporter 1 Printed/Typed Name | | | | | Signature | | | | | Month Day Year |
| | Transporter 2 Printed/Typed Name | | | | | Signature | | | | | Month Day Year |
| DESIGNATED FACILITY | 18. Discrepancy | | | | | | | | | | |
| | 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | | | | | | |
| | Manifest Reference Number: | | | | | | | | | | |
| | 18b. Alternate Facility (or Generator) U.S. EPA ID Number | | | | | | | | | | |
| | Facility's Phone: | | | | | | | | | | |
| 18c. Signature of Alternate Facility (or Generator) Month Day Year | | | | | | | | | | | |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | | | | | | |
| 1. | | 2. | | 3. | | 4. | | | | | |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | | | Month Day Year | |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 1437 Surveyed by: CHicks/J Mathson
 Trucking Company: Bellio Truck license plate no. /state: 14

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

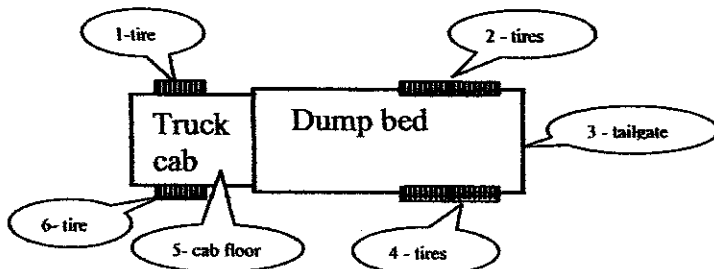
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|---------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 43.5 | 553.0 |

Truck 14

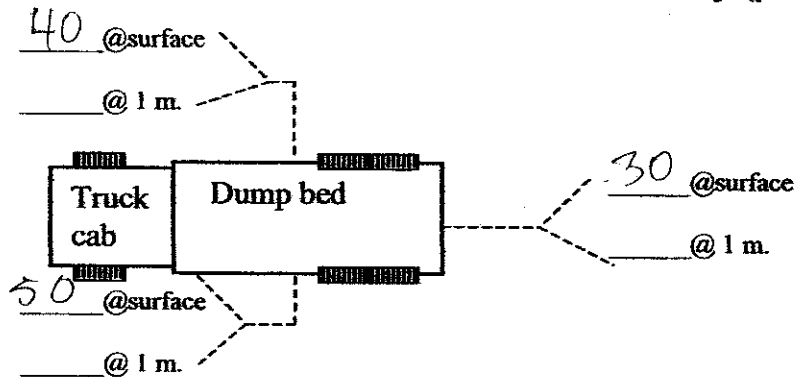
| | | | | | | | | | | |
|--|---|--|----|--|--|---|------|---|-------------------|-----------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number 000578438 | | 2. Page 1 of 1 | | 3. Emergency Response Phone 1-800-424-2700 | | 4. Manifest Tracking Number 000927142 FLE | | |
| | | 5. Generator's Name and Mailing Address 1000 West Avenue Crown Point, IN 46032-2400 Generator's Phone: 303 772 2400 | | Generator's Site Address (if different than mailing address) | | | | | | |
| 6. Transporter 1 Company Name Duke Power Corp | | U.S. EPA ID Number 000983778000 | | | | | | | | |
| 7. Transporter 2 Company Name | | U.S. EPA ID Number | | | | | | | | |
| 8. Designated Facility Name and Site Address 100555 East Highway 36 Crown Point, IN 46032 Facility's Phone: 303 772 2700 | | U.S. EPA ID Number 000991000404 | | | | | | | | |
| GENERATOR | 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | | | | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
| | | 1. HAZARDOUS WASTE, REGULATED, NON-FLAMMABLE | | | | No. | Type | | | |
| | | | | | | 1 | 5/D | 10 | 1 | |
| | | 2. | | | | | | | | |
| | | 3. | | | | | | | | |
| | 4. | | | | | | | | | |
| 14. Special Handling Instructions and Additional Information 1-800-424-2700 | | | | | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | | | | | |
| Generator's/Offor's Printed/Typed Name Steve Bingham, Sr. Vice President | | | | | | | | | | |
| Signature <i>[Signature]</i> | | | | | | | | | | |
| Month Day Year 08 21 07 | | | | | | | | | | |
| INT'L | 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ | | | | | | | | | |
| | Transporter signature (for exports only): _____ | | | | | | | | | |
| TRANSPORTER | 17. Transporter Acknowledgment of Receipt of Materials | | | | | | | | | |
| | Transporter 1 Printed/Typed Name Steve Bingham | | | | | Signature <i>[Signature]</i> | | | | |
| | Month Day Year 08 21 07 | | | | | | | | | |
| DESIGNATED FACILITY | 18. Discrepancy | | | | | | | | | |
| | 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | | | | | |
| | Manifest Reference Number: _____ | | | | | | | | | |
| | 18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ | | | | | | | | | |
| | Facility's Phone: _____ | | | | | | | | | |
| | 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____ | | | | | | | | | |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | | | | | |
| 1. | | | 2. | | | 3. | | | 4. | |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | | | | | |
| Printed/Typed Name _____ Signature _____ Month Day Year _____ | | | | | | | | | | |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 1450 Surveyed by: CHicks/J Mattson

Trucking Company: Bellio Truck license plate no. /state: 21

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

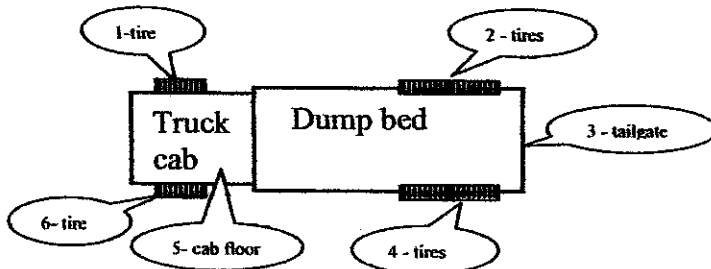
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|---------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

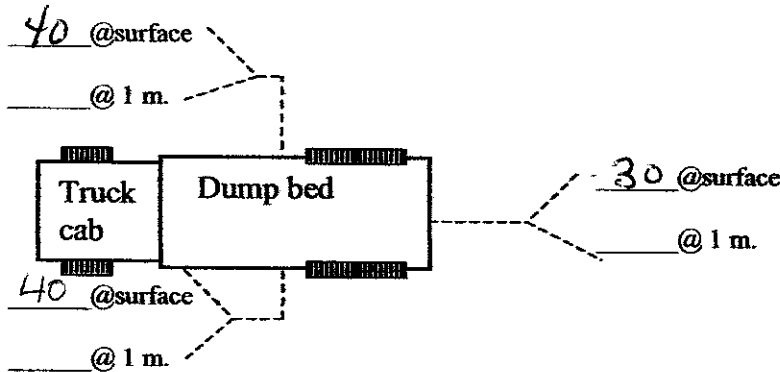
Truck 21

| | | | | | | | | | | |
|--|---|---|----|--|---------------|---|------|---|-------------------|-----------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number 000927146 | | 2. Page 1 of 1 | | 3. Emergency Response Phone (603) 463-3716 | | 4. Manifest Tracking Number 000927146 FLE | | |
| | | 5. Generator's Name and Mailing Address COLUMBIA PETROLEUM CORP. 1500 Bridge Avenue Bridgeton, NJ 08302 Generator's Phone: 603-273-0800 | | Generator's Site Address (if different than mailing address) | | | | | | |
| 6. Transporter 1 Company Name MORRIS TRANSPORT | | U.S. EPA ID Number 000927146 | | | | | | | | |
| 7. Transporter 2 Company Name | | U.S. EPA ID Number | | | | | | | | |
| 8. Designated Facility Name and Site Address COLUMBIA PETROLEUM CORP. 1500 Bridge Avenue Bridgeton, NJ 08302 Facility's Phone: (603) 273-0800 | | U.S. EPA ID Number 000927146 | | | | | | | | |
| GENERATOR | 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | | | | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes |
| | | | | | | No. | Type | | | |
| | | 1. HAZARDOUS WASTE, UNIDENTIFIED, REGULATION, HAZARDOUS | | | | 1 | 5/5 | 10 | ✓ | HAZ |
| | | 2. | | | | | | | | |
| | | 3. | | | | | | | | |
| | 4. | | | | | | | | | |
| 14. Special Handling Instructions and Additional Information | | | | | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | | | | | |
| Generator's/Offor's Printed/Typed Name Steve Beckman | | | | | Signature | | | Month Day Year 05 20 04 | | |
| TRANSPORTER | 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.: | | | | | | | | | |
| | Transporter signature (for exports only): | | | | | | | | | |
| | 17. Transporter Acknowledgment of Receipt of Materials | | | | | | | | | |
| | Transporter 1 Printed/Typed Name | | | | | Signature | | | Month Day Year | |
| | Transporter 2 Printed/Typed Name | | | | | Signature | | | Month Day Year | |
| DESIGNATED FACILITY | 18. Discrepancy | | | | | | | | | |
| | 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | | | | | |
| | Manifest Reference Number: | | | | | | | | | |
| | 18b. Alternate Facility (or Generator) | | | | | U.S. EPA ID Number | | | | |
| | Facility's Phone: | | | | | | | | | |
| | 18c. Signature of Alternate Facility (or Generator) | | | | | Month Day Year | | | | |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | | | | | |
| 1. | | | 2. | | | 3. | | | 4. | |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | | | | | |
| Printed/Typed Name | | | | | Signature | | | Month Day Year | | |

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 8/20/07 1530 Surveyed by: CHicks/J Mathson
 Trucking Company: Bellio Truck license plate no. /state: 16

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

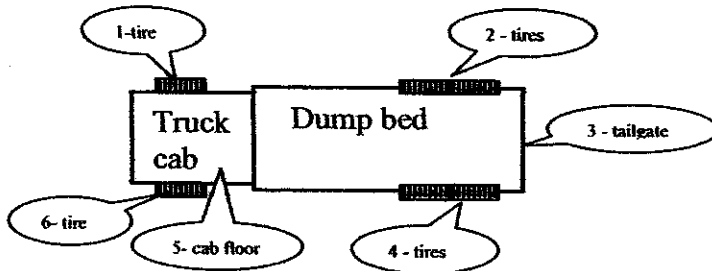
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|---------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 18 µrem | α 1.0 cpm | β 252 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 43.5 | 553.0 | |

Truck 16

| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator ID Number 000010625170 | 2. Page 1 of 1 | 3. Emergency Response Phone (800) 483-3718 | 4. Manifest Tracking Number 000927145 FLE | | | |
|---|--|--|----------------|---|--|-------------------|-----------------|--------------|
| 5. Generator's Name and Mailing Address Colorado School of Mines 1500 Lincoln Avenue Golden, CO 80401 | | Generator's Site Address (if different than mailing address) | | | | | | |
| Generator's Phone: (303) 273-5900 | | | | | | | | |
| 6. Transporter 1 Company Name Helle Transport Inc. | | U.S. EPA ID Number 0000000770200 | | | | | | |
| 7. Transporter 2 Company Name | | U.S. EPA ID Number | | | | | | |
| 8. Designated Facility Name and Site Address Clean Station Over Hauling 190754 East Highway, W Deer Trail, CO 80404 | | U.S. EPA ID Number 0000010004004 | | | | | | |
| Facility's Phone: (970) 528-2292 | | | | | | | | |
| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | |
| | | | No. | Type | | | | |
| | 1. HAZARDOUS WASTE, UNSTABILIZED, SOLID, ACIDIC | | 1 | IBC | 1700 | 6 | NONE | |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| 4. | | | | | | | | |
| 14. Special Handling Instructions and Additional Information 0000000000 | | | | | | | | |
| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. | | | | | | | | |
| Generator's/Offor's Printed/Typed Name Steve Primmer | | Signature [Signature] | | Month 08 | | Day 10 | | Year 2007 |
| 16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.: | | | | | | | | |
| 17. Transporter Acknowledgment of Receipt of Materials | | | | | | | | |
| Transporter 1 Printed/Typed Name [Signature] | | Signature [Signature] | | Month 08 | | Day 10 | | Year 2007 |
| Transporter 2 Printed/Typed Name | | Signature | | Month | | Day | | Year |
| 18. Discrepancy | | | | | | | | |
| 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection | | | | | | | | |
| Manifest Reference Number: | | | | | | | | |
| 18b. Alternate Facility (or Generator) U.S. EPA ID Number | | | | | | | | |
| Facility's Phone: | | | | | | | | |
| 18c. Signature of Alternate Facility (or Generator) Month Day Year | | | | | | | | |
| 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | | | |
| 1. | | 2. | | 3. | | 4. | | |
| 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a | | | | | | | | |
| Printed/Typed Name | | Signature | | Month | | Day | | Year |

Pile B 9-7-07

Truck Departure Record Form

| Truck ID | Date | Time In | Time Out | Estimated Quantity (yards) |
|-------------|--------|---------|----------|----------------------------|
| Griewe 8 | 9-7-07 | 0700 | 0719 | 18 cy |
| Marquez 96 | | 0700 | 0729 | |
| Griewe 12 | | 0700 | 0743 | |
| Marquez 961 | | 0710 | 0755 | |
| Ruiz 95 | | 0710 | 0802 | |
| Griewe 8 | | 0820 | 0830 | |
| Griewe 12 | | 0843 | 0849 | |
| Marquez 96 | | 0848 | 0856 | |
| Marquez 961 | | 0930 | 0939 | |
| Ruiz 95 | | 0939 | 0947 | |
| Griewe 8 | | 0957 | 1007 | |
| Griewe 12 | | 1008 | 1035 | |
| | | | | |
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| | | | | |
| | | | | |

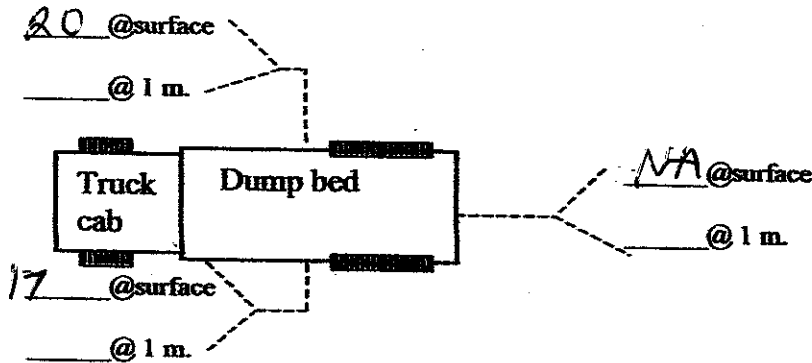
12 loads 9/7

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0718 Surveyed by: Chicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

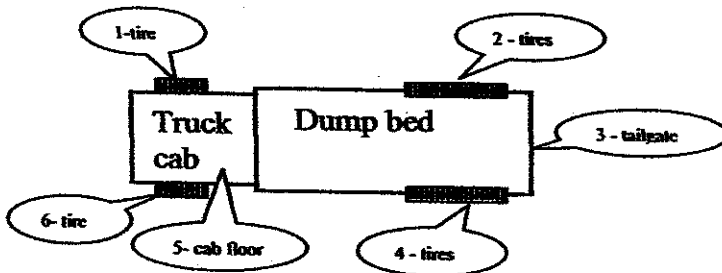
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 558 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0558920

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-1998 | | | | 5. Generating Location (If different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-1998 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1600 Illinois St Golden, CO ACCOUNT # 000000 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Normal Soil | | CO L67000006-5-1915 | | 18 Y Y-Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 1 7 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Fey | | Signature | | Month Day Year 09 07 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

521303

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE1191E

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 27057E | GRID 0000 |
| WEIGHMASTER 8300056 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 7:37 am |
| DATE OUT 7 September 2007 | | TIME OUT 7:37 am |
| VEHICLE YE1191E | | ROLL OFF |
| REFERENCE 8E0920 | ORIGIN | |

00 Gross Weight 65,100.00 lb
 Tare Weight 36,540.00 lb
 Net Weight 28,560.00 lb 14.25 TN

Inbound --

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 14.25 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550620

Please print or type.

| | | | | | |
|--|--|--|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-275-3100 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-0098 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name | | 10. Transporter #2 Company Name | | 11. US EPA ID Number | |
| 12. Transporter #2's Phone | | 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8500 Hwy 92 Golden, CO ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | |
| 15. Facility's Phone | | 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | |
| 18. Containers | | 19. Total Quantity | | 20. Unit | |
| No. | | Type | | G. Drums | |
| 18 | | Y | | Y. Yards | |
| a. | | b. | | c. | |
| d. | | e. | | f. | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brannon | | [Signature] | | 11/7/97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Chuck Foy | | [Signature] | | 09/07/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

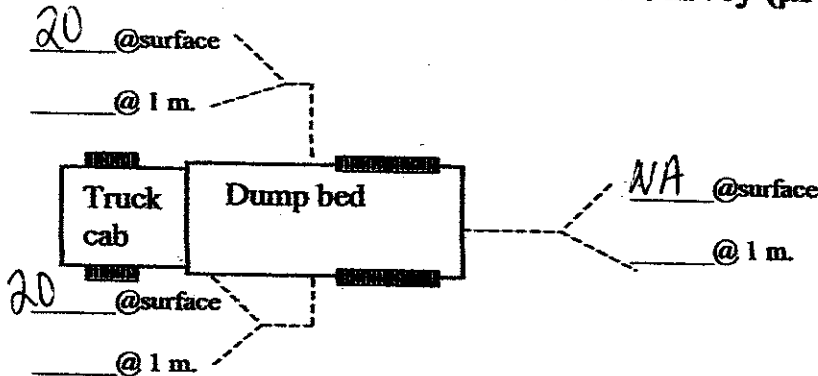
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0729 Surveyed by: Chicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

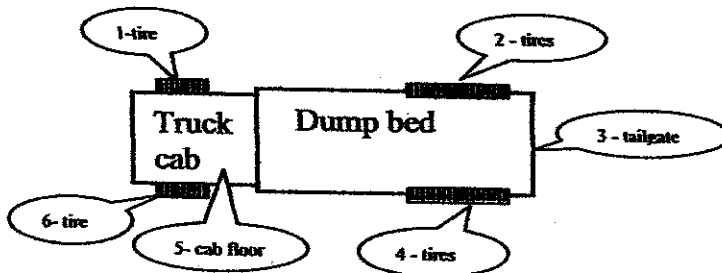
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 558 dpm | |



96

NON-HAZARDOUS WASTE MANIFEST

0550921

Please print or type.

| | | | | | | | |
|--|--|---|--|--|------|--------------------|----------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3098 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3098 | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Footfalls Center 6570 Hwy 93 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit |
| a. North Soil | | 001070709781311915 | | No. | Type | Drums | Drums |
| b. | | | | | | Yards | Tons |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Bergman | | | | Signature | | Month 1 | Day 7 |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month 9 | Day 20 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day |
| 26. Discrepancy Indication Space | | | | | | Year | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day |
| | | | | | | Year | |

GENERATOR'S COPY

COM000033

521344

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 550550 | GRID 0000 |
| WEIGHMASTER 2600056 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 7:48 am |
| DATE OUT 7 September 2007 | | TIME OUT 7:48 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 350921 | ORIGIN | |

Gross Weight 59,660.00 lb
 Tare Weight 36,580.00 lb
 Net Weight 23,080.00 lb 11.54 TN Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 11.54 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550921

Please print or type.

| | | | | | | | |
|--|--|--|--|--|--|--|-------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 6. Phone () 303-273-3998 | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Toothman Landfill 6900 Hwy 82 Golden, CO ACCOUNT # 000023 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Non-Hazardous Soil b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 167 070000 YS11915 | | 18. Containers | | 19. Total Quantity 0 Drums 0 Yards 0 Tons | 20. Unit Wt/Vol Gallons |
| | | | | No. | | | |
| | | | | Type | | | |
| | | | | | | | |
| | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 11 7 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year 9 23 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

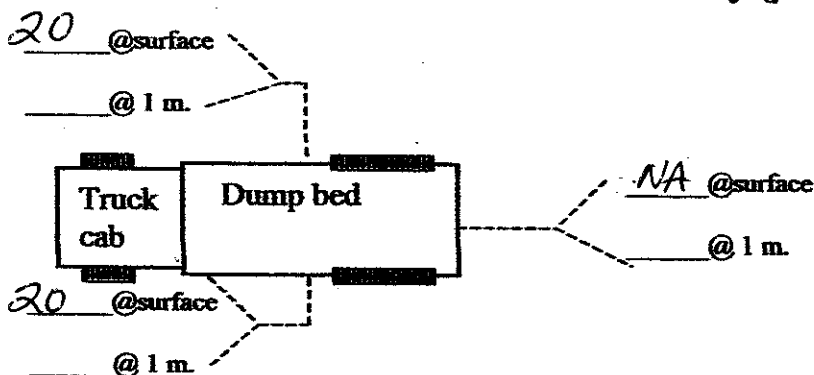
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0743 Surveyed by: CHICKS J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

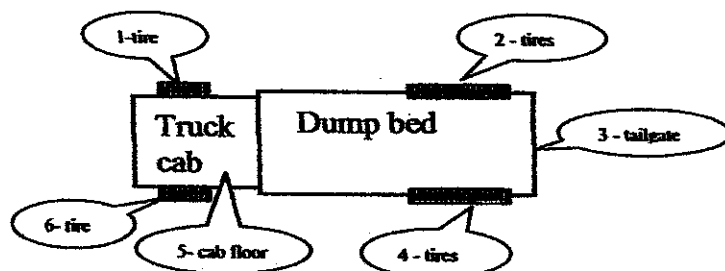
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
 Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 558 dpm |



NON-HAZARDOUS WASTE MANIFEST

0550822

Please print or type.

| | | | | | |
|--|--|---|---|----------------------------|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Birch St. Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Birch St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. North Sol | | 00167 070306 Y511015 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9 7 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Alan | | Signature | | Month Day Year 9 7 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

521314 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 806603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: 7511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 890583 | GRID 0000 |
| WEIGHMASTER 8500053 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 7:58 am |
| DATE OUT 7 September 2007 | | TIME OUT 7:55 am |
| VEHICLE 7511915 | | ROLL OFF |
| REFERENCE 850922 | ORIGIN | |

Gross Weight 65,800.00 lb
 Tare Weight 37,700.00 lb Inbound -
 Net Weight 28,100.00 lb 14.05 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 14.05 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE _____



NON-HAZARDOUS WASTE MANIFEST

0550822

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St. Golden, CO 80401 303-273-3696 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3696 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name Greene | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Greene 8000 1st Ave SE Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | 07-067-070000-15/1915 | | 19. Total Quantity 18 20. Unit Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 12 7 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 12 7 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

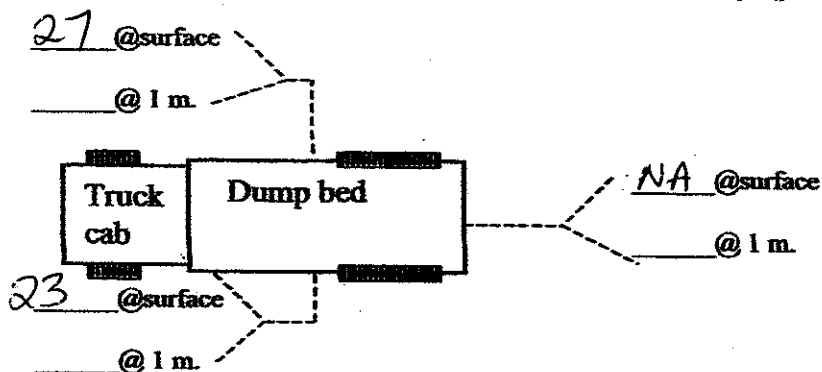
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0755 Surveyed by: Chicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)

0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)

200 mrem/hr at surface (200,000 µrem)

10 mrem/hr at 1 m (10,000 µrem)

(If surface is <10mrem/hr, survey is complete.)

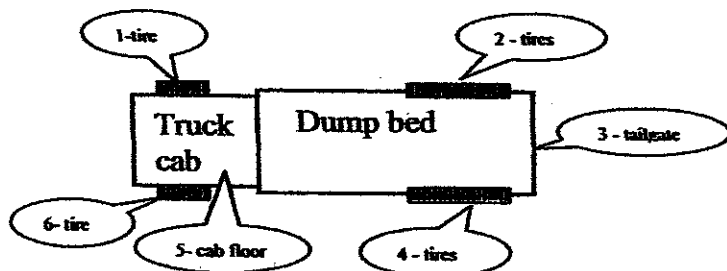
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-------------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (0.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25 mrem) | 0.2 |

For Stockpile
A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

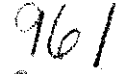
*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 2220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 658 dpm | |



COM000033

52132.4

FOOTHILLS LANDFILL
 8500 HIGHWAY 70
 GOLDEN
 CO
 760603
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y51191E

| | | |
|-------------------------------------|-------------------|---------------------|
| SITE 01 | TICKET 5305923 | GRID 0001 |
| WEIGHMASTER 6500056 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 8:17 am |
| DATE OUT 7 September 2007 | | TIME OUT 8:17 am |
| VEHICLE Y51191E | | ROLL OFF |
| REFERENCE 5305923 | ORIGIN | |

Gross Weight 73,580.00 lb
 Tare Weight 34,400.00 lb Inbound -
 net Weight 39,180.00 lb 19.54 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.54 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



ALLIED WASTE

SIGNATURE

P. 11



NON-HAZARDOUS WASTE MANIFEST

0550923

Please print or type

| | | | | | |
|--|--|---|---|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3998 | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 2000 Hwy 98 Golden, CO ACCOUNT # 801903 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | CO L07 070908 Y011015 | | 19. Total Quantity 0 Drums 0 Gallons 0 Yards Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Beckman | | Signature | | Month Day Year 9 07 07 | |
| 24. TRANSPORTER #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Michael J. Adams | | Signature | | Month Day Year 9 07 07 | |
| 25. TRANSPORTER #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

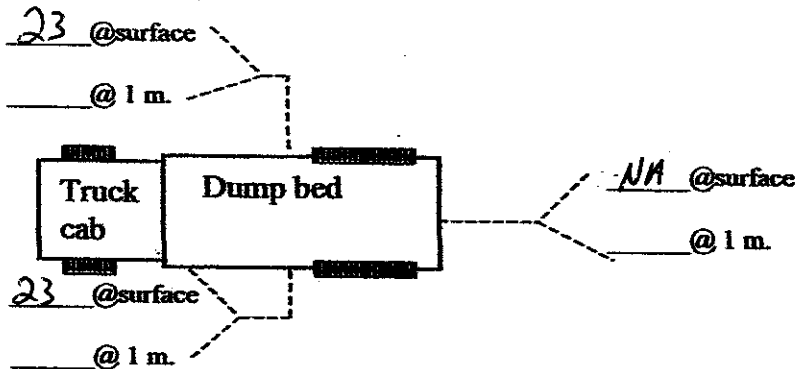
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0802 Surveyed by: Chicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

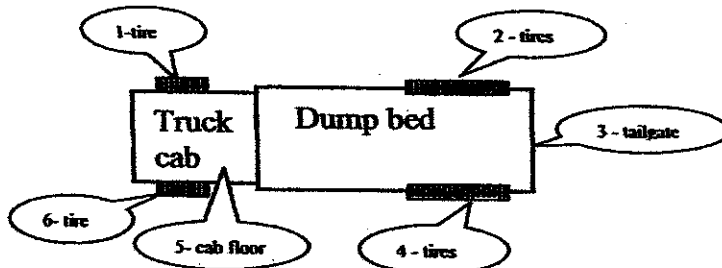
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 658 dpm |



NON-HAZARDOUS WASTE MANIFEST

0550924

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1600 Blake St Golden, CO 80401 303-273-3896 | | | | 5. Generating Location (if different) School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3896 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address 8250 Hwy 80 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 0 Drums 0 Cans | |
| a. Normal Soil | | CO L57 070506 1511915 | | 20. Unit Y-Yards T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature <i>[Signature]</i> | | Month Day Year 9 7 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name H. J. [unclear] | | Signature <i>[Signature]</i> | | Month Day Year 6 7 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

521328

FOOTHILL LANDFILL
 2900 HIGHWAY 50
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590577 | GRID 0000 |
| WEIGHMASTER 8000056 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 2:31 am |
| DATE OUT 7 September 2007 | | TIME OUT 6:21 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 530924 | ORIGIN | |

Gross Weight 75.400.00 lb
 Tare Weight 36.980.00 lb
 Net Weight 38.500.00 lb 19.25 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 19.25 | TN | SW-COAT SOIL | | | | |
| 1.00 | LB | ENVIRONMENTAL FEE | | | | |
| 1.00 | LB | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





NON-HAZARDOUS WASTE MANIFEST

0550324

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3996 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3996 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Rockwell Laundry 2000 14th St Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity 0 Drums 0 Gallons | |
| | | | | 20. Unit Wt/Vol Y-Yards T-Tons | |
| a. Norm Soil | | CC 187 070908 / 511315 | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9/7/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Michael | | Signature | | Month Day Year 9/7/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

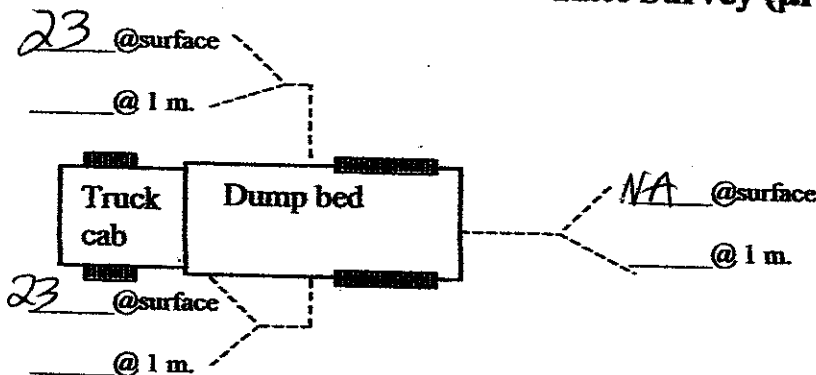
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

e: 9-7-07 0830 Surveyed by: CHICKS J Mattson

ing Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

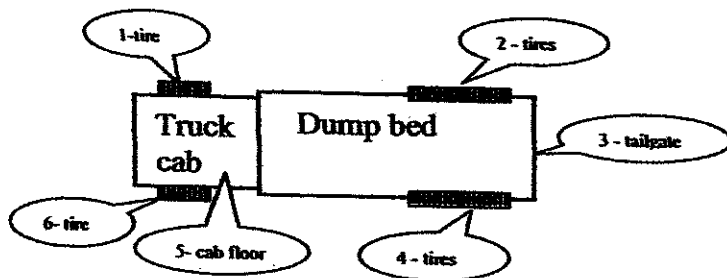
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 658 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550925

Please print or type

| | | | | | | | | |
|--|--|---|--|---|------|--------------------|-----------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1700 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Frontline Landfill 1670 Hwy 38 Golden, CO 80401 (Allied Waste (Colorado School of Mines)) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity | 20. Unit Wt/Vol | |
| | | | | No. | Type | | | |
| a. Norm Soil | | 00167 070401 Y311915 | | 18 | Y | Y-Yards | T-Tons | |
| b. | | | | | | | | |
| c. | | | | | | | | |
| d. | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Beckman | | | | Signature | | Month | Day | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name Chuck Foy | | | | Signature | | 09 | 07 | 07 |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | Signature | | Month | Day | Year |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

GENERATOR'S COPY

COM000033

521343

FOOTHILLS LANDFILL
 8900 HIGHWAY 73
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 590614 | GRID 0000 |
| WEIGHMASTER 0800056 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 8:47 am |
| DATE OUT 7 September 2007 | | TIME OUT 8:47 am |
| VEHICLE YE11915 | | ROLL OFF |
| REFERENCE 550925 | ORIGIN | |

00 Gross Weight 79.720.00 lb
 Tare Weight 36.540.00 lb Inbound -
 net Weight 43.180.00 lb 21.5% TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.5% | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE

[Handwritten signature]



NON-HAZARDOUS WASTE MANIFEST

0550925

Please print or type

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1000 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 8801 Hwy 93 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 20167070802 1511915 | | 18 Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Gallons Y Yards T Tons | | | | | |
| 20. Unit Wt/Vol | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature | | Month Day Year 09 07 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

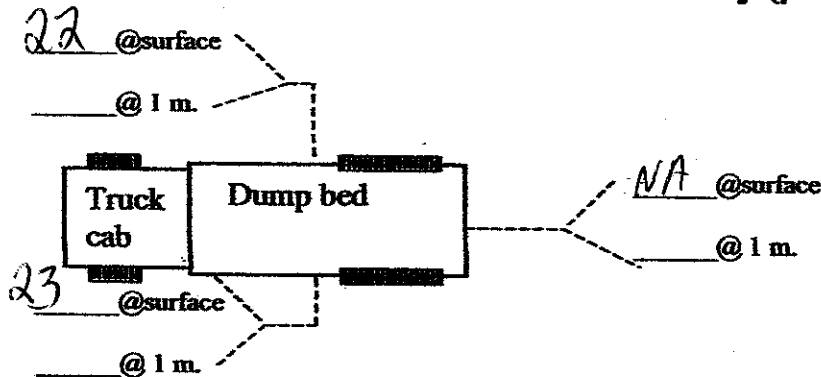
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0849 Surveyed by: Chicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

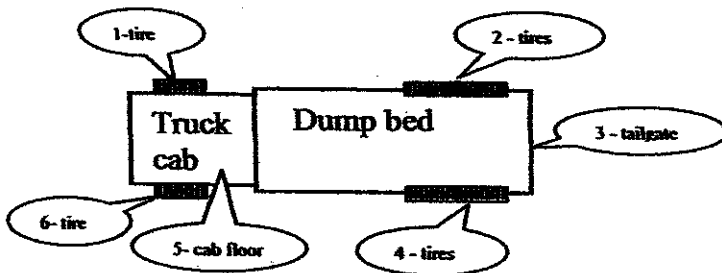
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 220 | | | | 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 658 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550909

T/S/D FACILITY

521384 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80660
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|------------------------------------|--|------------------|---------------------|--------------|--|
| SITE 01 | | TICKET 570623 | | GRID 0000 | |
| WEIGHMASTER 800056 Barbara Jo S | | | | | |
| DATE IN 7 September 2007 | | | TIME IN 9:05 am | | |
| DATE OUT 7 September 2007 | | | TIME OUT 9:05 am | | |
| VEHICLE YE11915 | | | ROLL OFF | | |
| REFERENCE 550926 | | ORIGIN | | | |

00 Gross Weight 82,300.00 lb
 Tare weight 37,700.00 lb
 Net Weight 44,600.00 lb 22.30 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.30 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

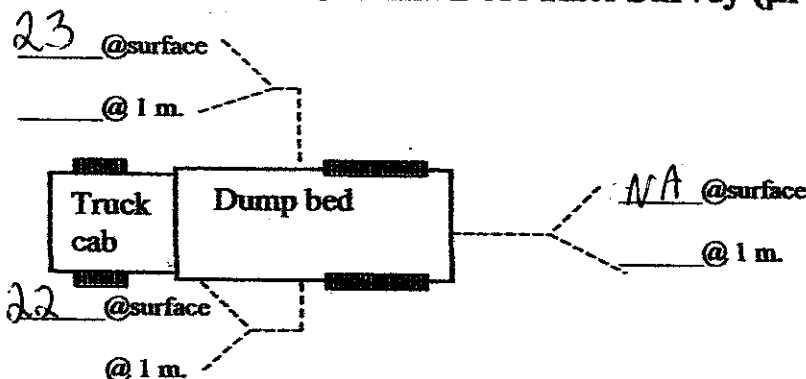
[Handwritten Signature]

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0856 Surveyed by: Chicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 96

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

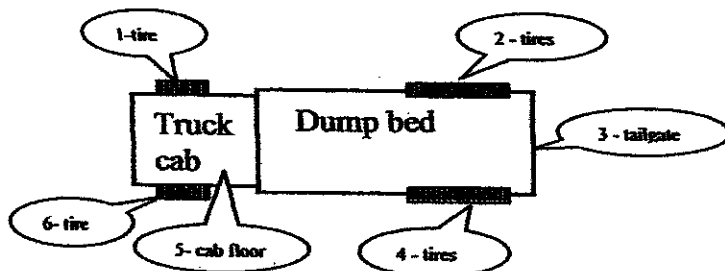
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | 4220 | | | | 42200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 658 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550929

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-3968 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3968 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 4471 Hwy 80 Golden, CO ACCOUNT # 988615 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Storm Sewer | | CO 167 070908 7511915 | | 19. Total Quantity 0 Drums Y-Yards 0 Gallons T-Tons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Buckman | | | | 7 1 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Kenneth Turner | | | | 7 1 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

GENERATOR'S COPY

COM000033

521350

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDER
 CO
 806003
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDER, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|---------------------|
| SITE 01 | TICKET 370327 | GRID 0000 |
| WEIGHMASTER 2500036 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 7:16 am |
| DATE OUT 7 September 2007 | | TIME OUT 9:16 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 370929 | ORIGIN | |

00 Gross Weight 81,820.00 lb
 Tare Weight 34,580.00 lb Inbound -
 Net Weight 47,240.00 lb 22.32 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.32 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

SIGNATURE





0550929

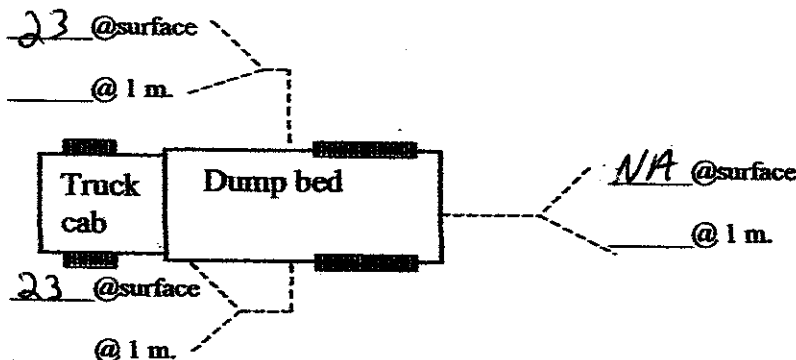
COM000035

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0940 Surveyed by: CHICKS J Mattson

Trucking Company: Grieve Truck license plate no. /state: 961

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

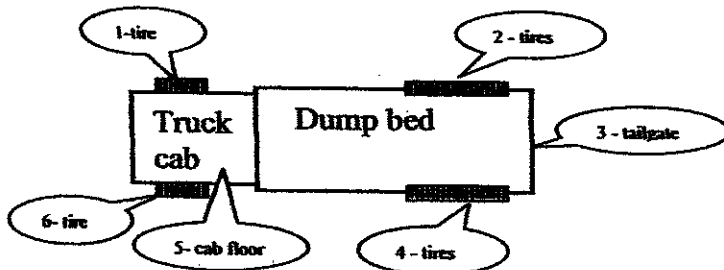
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------|-------------|------------------|-------------|-------------|-------------|-----------------|-------------|
| cpm/100 cm² | dpm/100 cm² | cpm/100 cm² | dpm/100 cm² | cpm/100 cm² | dpm/100 cm² | cpm/100 cm² | dpm/100 cm² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 558 dpm | |

Please print or type.

| | | | | | | | |
|--|--|--------------------------|---|--|----------------------------|-----------------------|--------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address 1500 Lincoln St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3998 | | | |
| 4. Phone () | | | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | |
| 10. Transporter #2 Company Name | | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | |
| 13. Designated T/S/D Facility Name and Site Address 1500 Lincoln St. Golden, CO 80401 | | | 14. US EPA ID Number | | 15. Facility's Phone | | |
| 16. Waste Shipping Name and Description | | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | | 19. Total Quantity |
| a. Normal Soil | | | CO L67 070000 1511015 | | No. Type | | Drums Gallons |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brinkman | | | | Signature | | Month Day Year 7 7 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year 7 7 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

521378

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 760602
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: YE11915

| | | | | | |
|-------------------------------------|--|------------------|----------------------|--------------|--|
| SITE 01 | | TICKET E90645 | | GRID 0000 | |
| WEIGHMASTER B000033 Barbara Jo S | | | | | |
| DATE IN 7 September 2007 | | | TIME IN 10:01 am | | |
| DATE OUT 7 September 2007 | | | TIME OUT 10:01 am | | |
| VEHICLE YE11915 | | | ROLL OFF | | |
| REFERENCE E90928 | | ORIGIN | | | |

Gross Weight 89,180.00 lb
 Tare Weight 34,400.00 lb
 Net Weight 48,780.00 lb 64.39 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 24.39 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE [Signature]



NON-HAZARDOUS WASTE MANIFEST

961
0550928

Please print or type

| | | | | | | | | |
|--|--|--|--|---|--|---|----------------------------|------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1600 Illinois St Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | | | | |
| 4. Phone () | | 6. Phone () | | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | | |
| 13. Designated T/S/D Facility Name and Site Address Footprints Landfill 6900 Hwy 90 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | | | | |
| 16. Waste Shipping Name and Description a. (Norm Soil) b. c. d. | | 17. Allied Waste Approval # and Exp. Date CO 197 070009 YS11015 | | 18. Containers | | 19. Total Quantity D. Drums Y Yards Tons | 20. Unit Wt/Vol Gallons | |
| | | | | No. Type | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | | |
| Printed/Typed Name Steve Brakner | | | | Signature | | Month 7 | Day 27 | Year |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month 7 | Day 27 | Year |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |
| 26. Discrepancy Indication Space | | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month | Day | Year |

TRANSPORTER #1

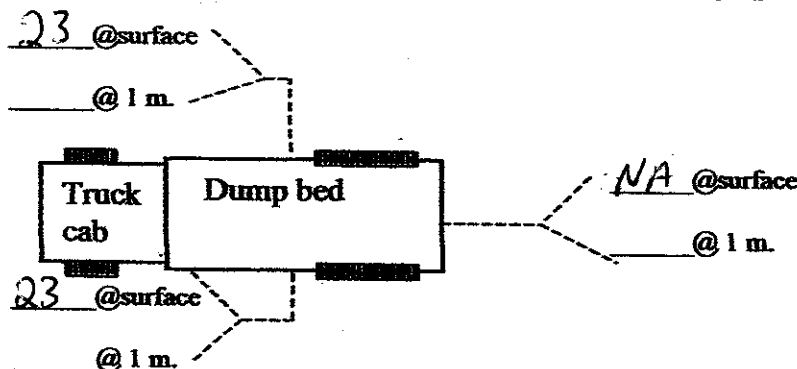
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 0947 Surveyed by: Chicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 95

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

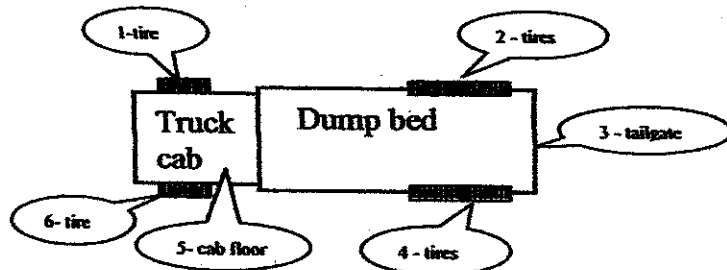
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 658 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550927

Please print or type.

| | | | | | |
|---|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1900 Union St. Golden, CO 80401 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Facility Name Address Golden, CO | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit | |
| | | | | 21. Tons | |
| | | | | 22. Yards | |
| | | | | 23. Cubic Yards | |
| | | | | 24. Cubic Feet | |
| | | | | 25. Other | |
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| | | | | 98. Other | |
| | | | | 99. Other | |
| | | | | 100. Other | |

GENERATOR'S COPY

COM000033

521373

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80401
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 590548 | GRID 0000 |
| WEIGHMASTER 6500036 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 10:05 am |
| DATE OUT 7 September 2007 | | TIME OUT 10:05 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 550927 | ORIGIN | |

GC Gross Weight 60,120.00 lb
 Tare Weight 36,980.00 lb
 Net Weight 43,140.00 lb 21.57 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 21.57 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550927

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 4. Phone () 303-273-3998 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3998 6. Phone () | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Potholes Landfill 2500 Hwy 93 Golden, CO ACCOUNT # 001119 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | 19. Total Quantity | |
| | | | | 20. Unit Wt/Vol | |
| a. Non Sol | | CO 167 0709/0 Y511915 | | 0 Drums 0 Gallons | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature | | Month Day Year 9 7 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year 1 7 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

TRANSPORTER #1

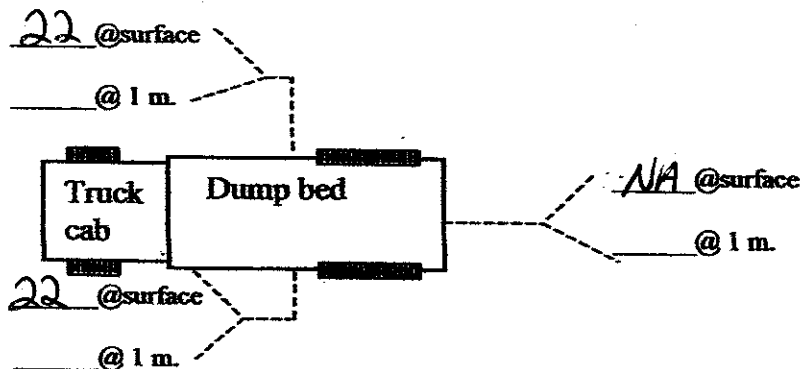
COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 1007 Surveyed by: Chicks J Mattson

Trucking Company: Grieve Truck license plate no. /state: 8

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
200 mrem/hr at surface (200,000 µrem)
10 mrem/hr at 1 m (10,000 µrem)
(If surface is <10mrem/hr, survey is complete.)

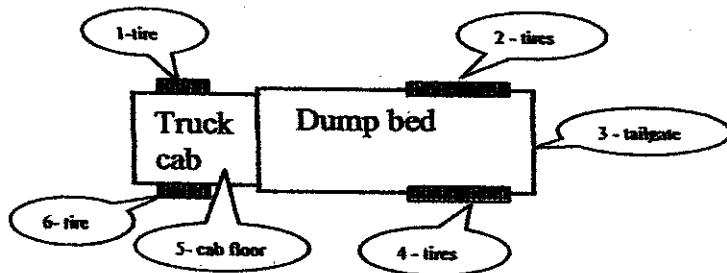
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²
Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | < 220 | | | | < 2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum |
|------------|------------|--------------------|--------------------|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm |
| Efficiency | NA | 17.6 % | 13.9 % |
| MDA | NA | 17 dpm | 658 dpm |



NON-HAZARDOUS WASTE MANIFEST

0550930

Please print or type.

| | | | | | | | |
|--|--|--|--|---|--|-------------------------------|------------------------------|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | | | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Birch St Golden, CO 80401 303-273-3898 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3898 | | | |
| 4. Phone () | | 6. Phone () | | | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | | | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | | | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 1500 Birch St Golden, CO 80401 | | 14. US EPA ID Number | | 15. Facility's Phone | | | |
| 16. Waste Shipping Name and Description a. Norm Soil | | 17. Allied Waste Approval # and Exp. Date CO L87 0709N8 Y611815 | | 18. Containers | | 19. Total Quantity Y-Yards | 20. Unit Wt/Vol T-Tons |
| | | | | No. Type | | | |
| | | | | 18 4 | | | |
| | | | | | | | |
| | | | | | | | |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | | | |
| Printed/Typed Name Steve Brakner | | | | Signature [Signature] | | Month Day Year 7 7 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name Chuck Foy | | | | Signature [Signature] | | Month Day Year 7 7 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | | | |
| Printed/Typed Name | | | | Signature | | Month Day Year | |

GENERATOR'S COPY

COM000033

521300

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 960602
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET E90660 | GRID 0000 |
| WEIGHMASTER #S00036 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 10:24 am |
| DATE OUT 7 September 2007 | | TIME OUT 10:24 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE E50930 | ORIGIN | |

Gross Weight 82,300.00 lb
 Tare Weight 34,540.00 lb
 Net Weight 47,760.00 lb 22.63 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 22.63 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

NET AMOUNT

TENDERED

CHANGE

CHECK NO.



SIGNATURE



NON-HAZARDOUS WASTE MANIFEST

0550930

Please print or type.

| | | | | | |
|--|--|---|--|---|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3096 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St Golden, CO 80401 303-273-3096 | |
| 4. Phone () | | 6. Phone () | | | |
| 7. Transporter #1 Company Name | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Foothills Landfill 15001 Hwy 80 Golden, CO 80401 ACCOUNT # 000000 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| | | | | No. Type | |
| a. Norm Soil | | 20182 070904 1511915 | | 18 Y Y | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 19. Total Quantity 0 Drums 0 Casks | | | | | |
| 20. Unit Wt/Vol Y-Yards T-Tons | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Brinkman | | Signature [Signature] | | Month Day Year 9 7 07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Chuck Foy | | Signature [Signature] | | Month Day Year 9 7 07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

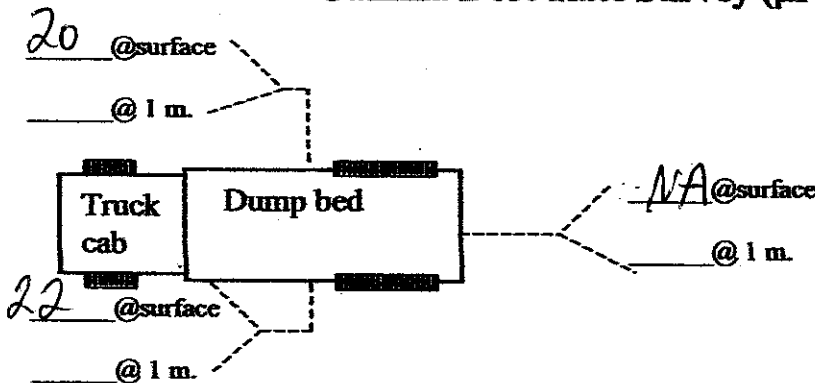
TRANSPORTER #1

COM000033

S.M. STOLLER TRUCK RADIATION SURVEY FORM

Date/Time: 9-7-07 1035 Surveyed by: Chicks J Mattson
 Trucking Company: Grieve Truck license plate no. /state: 12

Gamma Dose Rate Survey (µrem/hr)



Notes:

Dose rates should be recorded at highest reading for each side.

Incoming Limits (49CFR 173.443)
 0.5 mrem/hr at surface (500 µrem)

Outgoing Limits (49CFR 173.441)
 200 mrem/hr at surface (200,000 µrem)
 10 mrem/hr at 1 m (10,000 µrem)
 (If surface is <10mrem/hr, survey is complete.)

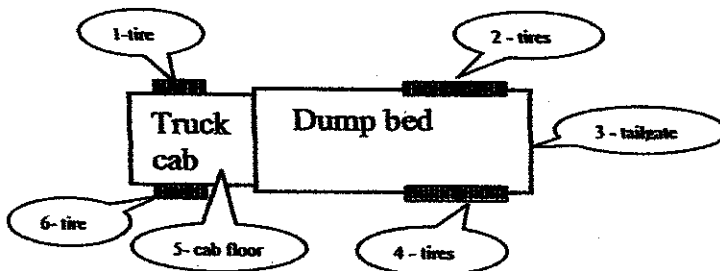
Transport Index (TI): Maximum radiation level at 1 meter from the external surface of the truck in millirem per hour, rounded up to next tenth.

| Dose Rate at 1 meter | TI |
|-----------------------------|-----|
| < 50 µrem (<0.05 mrem) | 0 |
| 50-149 µrem (.05-0.15 mrem) | 0.1 |
| 150-249 µrem (0.15-0.25) | 0.2 |

For Stockpile A only:

TI = _____

Alpha/Beta Total and Removable Contamination Survey



Removable Contamination limits:

Alpha: 220 dpm/100 cm²

Beta: 2200 dpm/100 cm²

*If total reading is less than limit, survey is complete. If total reading is greater than limit, collect smear and count for removable.

| Total alpha | | Removable alpha* | | Total beta | | Removable beta* | |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² | cpm/100 cm ² | dpm/100 cm ² |
| | <220 | | | | <2200 | | |

Comments: _____

INSTRUMENT DATA

| Mfg. | Ludlum | Ludlum | Ludlum | |
|------------|------------|--------------------|--------------------|--|
| Model | 19 | 2360 / 43-89 probe | 2360 / 43-89 probe | |
| Serial # | 144043 | 233249 / PR-227111 | 233249 / PR-227111 | |
| Cal Due | 8-14-08 | 8-15-08 | 8-15-08 | |
| Bkg. | 17 µrem/hr | α 0 cpm | β 257 cpm | |
| Efficiency | NA | 17.6 % | 13.9 % | |
| MDA | NA | 17 dpm | 658 dpm | |



NON-HAZARDOUS WASTE MANIFEST

0550931

Please print or type.

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address 1500 Illinois St Golden, CO 80401 303-273-3066 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and Birch St. Golden, CO 80401 303-273-3066 | |
| 4. Phone () | | 6. Phone () | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Green Trucking Inc. | | 8. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 11. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Colorado School of Mines 6000 Hwy 90 Golden, CO 80401 (Colorado School of Mines) | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 16. Waste Shipping Name and Description | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| a. Norm Soil | | CO LC7 070908 YS11915 | | 19. Total Quantity D-Drums Y-Yards | |
| b. | | | | 20. Unit Wt/Vol G-Gallons T-Tons | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 7 7 97 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name Steve Benham | | Signature | | Month Day Year 7 7 97 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |

GENERATOR

TRANSPORTER

T/S/D FACILITY

GENERATOR'S COPY

COM000033

521405 12

FOOTHILLS LANDFILL
 8900 HIGHWAY 93
 GOLDEN
 CO
 80403
 COLORADO SCHOOL OF MINES
 1500 ILLINOIS ST
 GOLDEN, CO 80401

Contract: Y511915

| | | |
|-------------------------------------|------------------|----------------------|
| SITE 01 | TICKET 550676 | GRID 0000 |
| WEIGHMASTER ESC0056 Barbara Jo S | | |
| DATE IN 7 September 2007 | | TIME IN 10:52 am |
| DATE OUT 7 September 2007 | | TIME OUT 10:52 am |
| VEHICLE Y511915 | | ROLL OFF |
| REFERENCE 550676 | ORIGIN | |

Gross Weight 69,980.00 lb
 Tare Weight 37,700.00 lb Inbound -
 Net Weight 32,280.00 lb 16.14 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|-------|------|-------------------|------|-----------|-----|-------|
| 16.14 | TN | SW-CONT SOIL | | | | |
| 1.00 | LD | ENVIRONMENTAL FEE | | | | |
| 1.00 | LD | FUEL RECOVERY FEE | | | | |

| |
|------------|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |



SIGNATURE

[Handwritten Signature]



NON-HAZARDOUS WASTE MANIFEST

0550931

Please print or type

| | | | | | |
|--|--|---|--|--|--|
| 1. Generator's US EPA ID Number | | Manifest Document Number | | 2. Page 1 of | |
| 3. Generator's Name and Mailing Address Colorado School of Mines Research Institute 1500 Illinois St Golden, CO 80401 303-273-3908 | | | | 5. Generating Location (if different) Colorado School of Mines Research Institute North West of 12th and York St Golden, CO 80401 303-273-3908 | |
| 4. Phone () | | 8. US EPA ID Number | | 9. Transporter #1's Phone | |
| 7. Transporter #1 Company Name Green Tank, Inc. | | 11. US EPA ID Number | | 12. Transporter #2's Phone | |
| 10. Transporter #2 Company Name | | 14. US EPA ID Number | | 15. Facility's Phone | |
| 13. Designated T/S/D Facility Name and Site Address Frontier Landfill 2800 Hwy 50 Golden, CO ACCOUNT # 90000 (Colorado School of Mines) | | 17. Allied Waste Approval # and Exp. Date | | 18. Containers | |
| 16. Waste Shipping Name and Description | | 19. Total Quantity | | 20. Unit Wt/Vol | |
| a. Norm Soil | | CC 167 0709/0 1511915 | | 18 | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| 21. Additional Descriptions for Materials Listed Above | | | | | |
| 22. Special Handling Instructions and Additional Information | | | | | |
| 23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste. | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 9/7/07 | |
| 24. Transporter #1: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| Steve Brinkman | | | | 9/7/07 | |
| 25. Transporter #2: Acknowledgement of Receipt of Materials | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |
| 26. Discrepancy Indication Space | | | | | |
| 27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19) | | | | | |
| Printed/Typed Name | | Signature | | Month Day Year | |
| | | | | | |

TRANSPORTER #1

COM000033

Appendix I

Final Radiological Surveys of Trucks and Equipment

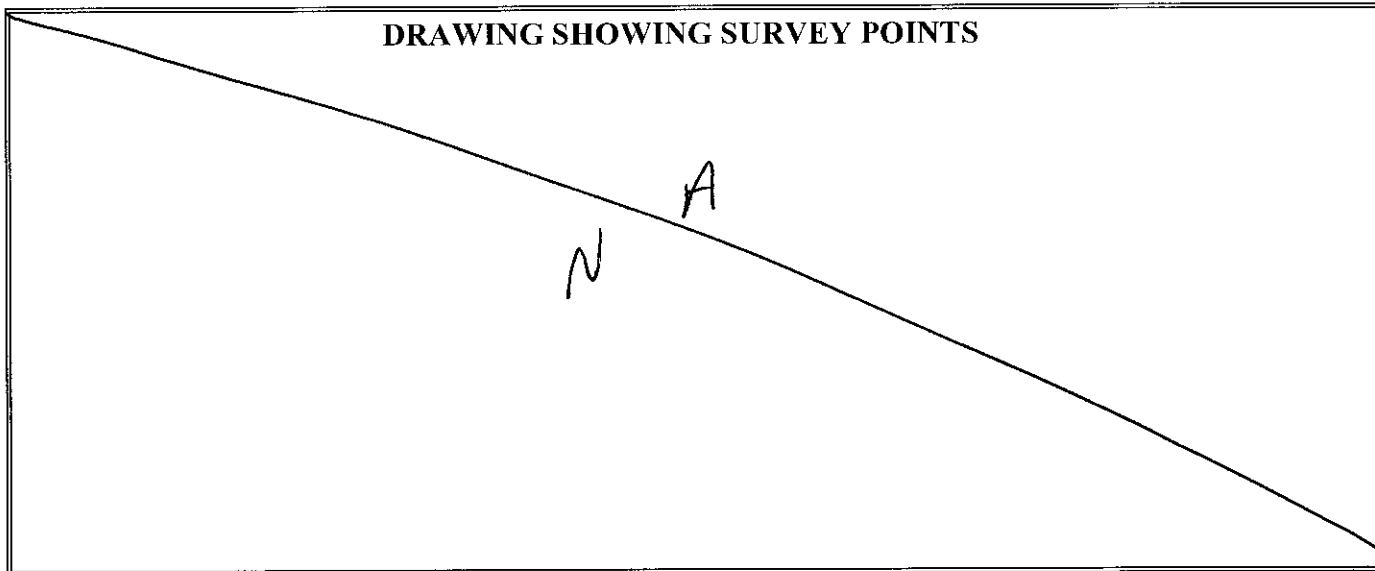
S.M.STOLLER RADIOLOGICAL SURVEY FORM

| Survey Type: Contamination | INSTRUMENT DATA | | | | | |
|-----------------------------------|-----------------|------------|-------------|-----------|-------------|--|
| Location: CSMRI | Mfg. | Ludlum | Ludlum | Ludlum | Ludlum | |
| Purpose: Job coverage | Model | 2360 | 2360 | 2929 | 2929 | |
| Date: 8/17/07-9/7/07 | Serial # | 223249 | 223249 | 176089 | 176089 | |
| Time: Various | Cal Due | 8/15/08 | 8/15/08 | 8/14/08 | 8/14/08 | |
| Surveyed by: J. Mattson <i>Jm</i> | Bkg. | 0-5 | 237-316 | 0.4-1.2 | 83.2-98.4 | |
| Comments: | Efficiency | 17.6 alpha | 13.9 beta | 35 alpha | 27 beta | |
| | MDA | 17.0-76.2 | 536.9-616.6 | 15.2-20.8 | 168.3-182.1 | |

SURVEY RESULTS

Contamination surveys were performed at various times as necessary on trucks, heavy equipment, sample containers, hand tools and personnel. Results were all within limits for non-fixed and total alpha and beta contamination.

DRAWING SHOWING SURVEY POINTS



Appendix J

Daily GPS Coordinates of Disposal Location at BFI Foothills Landfill

| WayPoint | y_Coordi | x_Coordi | Easting | Northing |
|----------|----------|-----------|---------|----------|
| 95 | 39.8509 | -105.2286 | 3076205 | 1734938 |
| 96 | 39.85117 | -105.2288 | 3076143 | 1735035 |
| 98 | 39.85301 | -105.2301 | 3075774 | 1735704 |
| 99 | 39.85106 | -105.2282 | 3076312 | 1734994 |
| 100 | 39.85105 | -105.2282 | 3076312 | 1734992 |
| 101 | 39.8513 | -105.2288 | 3076143 | 1735082 |
| 102 | 39.85096 | -105.2287 | 3076188 | 1734959 |
| 103 | 39.85153 | -105.2291 | 3076065 | 1735165 |
| 104 | 39.85079 | -105.2291 | 3076068 | 1734896 |
| 105 | 39.85105 | -105.2289 | 3076106 | 1734990 |
| 106 | 39.85105 | -105.2289 | 3076106 | 1734990 |
| 107 | 39.85153 | -105.2289 | 3076110 | 1735167 |
| 108 | 39.85112 | -105.229 | 3076100 | 1735018 |

Original Data WGS 84 Decimal Degrees

Converted to NAD 83 State Plane Colorado Central, Easting and Northing

Way Points 095 - 108 were roughly 35K feet north of the CSM site. Which relatively closely matches what I expected for the Allied Waste Services Foothills Landfill at 8900 HWY 93, Golden, CO

Appendix K

Ambient Air Monitor Results

CSMRI Air Monitoring

Date(s) of air monitoring: August 20-27, 2007

Date air filters were counted: August 30, 2007

$$MDA \text{ (dpm)} = \frac{\frac{2.71}{T_S} + 3.29 \sqrt{\frac{C_B}{T_S} + \frac{C_B}{T_B}}}{Eff}$$

Where:

T_S = Count time for sample filter (minutes) =

T_B = Count time for background (minutes) =

C_B = Background count rate (cpm) =

Eff = Efficiency of detector =

| | |
|--------|-------|
| 10 | |
| 2 | |
| 0.4 | alpha |
| 0.2962 | |

Calculated MDA = 6.36 dpm

| Air Monitor No. | Start date | Start time | Start flowrate (lpm) | End date | End time | Total elapsed time (min) | End flowrate (lpm) | Avg Flow rate (l/min) | gross sample count rate (cpm) | net count rate (sample - bkgd in cpm) | Airborne activity concentration (uCi/ml) |
|-----------------|------------|------------|----------------------|----------|----------|--------------------------|--------------------|-----------------------|-------------------------------|---------------------------------------|--|
| AS East | 8/20/07 | 7:22 | 58 | 8/27/07 | 6:45 | 10043 | 58 | 58 | 1.3 | 0.9 | 2.35E-15 |
| AS West | 8/20/07 | 7:30 | 66 | 8/27/07 | 6:50 | 10040 | 63 | 64.5 | 1.6 | 1.2 | 2.82E-15 |

Airborne activity concentration (uCi/ml) = $\frac{\text{net count rate (cpm)} \times 4.5 \times 10^{-7} \text{ (uCi/dpm)}}{\text{sample volume (ml)} \times \text{efficiency (cpm/dpm)}}$ = 2.35E-15 uCi/ml

Effluent limit for Creekside mixture = 4.72 E-14 uCi/ml

CSMRI Air Monitoring

Date(s) of air monitoring: August 27- Sept 4, 2007

Date air filters were counted: September 7, 2007

$$MDA \text{ (dpm)} = \frac{\frac{2.71}{T_S} + 3.29 \sqrt{\frac{C_B}{T_S} + \frac{C_B}{T_B}}}{Eff}$$

Where:

T_S = Count time for sample filter (minutes) =

T_B = Count time for background (minutes) =

C_B = Background count rate (cpm) =

Eff = Efficiency of detector =

| | |
|--------|-------|
| 10 | |
| 2 | |
| 0.6 | alpha |
| 0.2962 | |

Calculated MDA = 7.58 dpm

| Air Monitor No. | Start date | Start time | Start flowrate (lpm) | End date | End time | Total elapsed time (min) | End flowrate (lpm) | Avg Flow rate (l/min) | gross sample count rate (cpm) | net count rate (sample - bkgd in cpm) | Airborne activity concentration (uCi/ml) |
|-----------------|------------|------------|----------------------|----------|----------|--------------------------|--------------------|-----------------------|-------------------------------|---------------------------------------|--|
| AS East | 8/27/07 | 6:46 | 58 | 9/4/07 | 7:40 | 11574 | 55 | 56.5 | 2.2 | 1.6 | 3.72E-15 |
| AS West | 8/27/07 | 6:51 | 65 | 9/4/07 | 7:50 | 11579 | 60 | 62.5 | 1.7 | 1.1 | 2.31E-15 |

Airborne activity concentration (uCi/ml) =

$$\frac{\text{net count rate (cpm)} \times 4.5 \times 10^{-7} \text{ (uCi/dpm)}}{\text{sample volume (ml)} \times \text{efficiency (cpm/dpm)}} = 3.72\text{E-15 uCi/ml}$$

Effluent limit for Creekside mixture =

4.72 E-14 uCi/ml

CSMRI Air Monitoring

Date(s) of air monitoring: September 4-7, 2007

Date air filters were counted: September 13, 2007

$$MDA \text{ (dpm)} = \frac{\frac{2.71}{T_S} + 3.29 \sqrt{\frac{C_B}{T_S} + \frac{C_B}{T_B}}}{Eff}$$

Where:

T_S = Count time for sample filter (minutes) =

T_B = Count time for background (minutes) =

C_B = Background count rate (cpm) =

Eff = Efficiency of detector =

| | |
|--------|-------|
| 10 | |
| 2 | |
| 0.4 | alpha |
| 0.2962 | |

Calculated MDA = 6.36 dpm

| Air Monitor No. | Start date | Start time | Start flowrate (lpm) | End date | End time | Total elapsed time (min) | End flowrate (lpm) | Avg Flow rate (l/min) | gross sample count rate (cpm) | net count rate (sample - bkgd in cpm) | Airborne activity concentration (uCi/ml) |
|-----------------|------------|------------|----------------------|----------|----------|--------------------------|--------------------|-----------------------|-------------------------------|---------------------------------------|--|
| AS East | 9/4/07 | 7:40 | 57 | 9/7/07 | 12:35 | 4615 | 58 | 57.5 | 0.6 | 0.2 | 1.15E-15 |
| AS West | 9/4/07 | 7:50 | 65 | 9/7/07 | 12:40 | 4610 | 65 | 65 | 1.3 | 0.9 | 4.56E-15 |

Airborne activity concentration (uCi/ml) =

$$\frac{\text{net count rate (cpm)} \times 4.5 \times 10^{-7} \text{ (uCi/dpm)}}{\text{sample volume (ml)} \times \text{efficiency (cpm/dpm)}} = 1.15\text{E-15 uCi/ml}$$

Effluent limit for Creekside mixture =

4.72 E-14 uCi/ml

Appendix L

Dose Rate Surveys of Work Area

Dose Rate Monitoring Form SOP-RAD-033.1

| | |
|---|---|
| Location/Client: CSMRI | Instrument Mfg./Model: Ludlum Model 19 |
| Date: 8/16/07 - 9/7/07 | Serial #: 144043 |
| Surveyed by: J. Mattson | Calibration due: 8/14/08 |
| Background ($\mu\text{R/hr}$): 17-18 | Performance check satisfactory? (Y) N |

| Time | Monitoring Location | | Dose rate ($\mu\text{R/hr}$) |
|------|--|--------------|-----------------------------------|
| | Description | Drawing Ref. | |
| | Dose rate surveys were performed in the work areas at various times throughout the course of the stockpiled soil disposal project. | | |
| | Dose rates ranged from 0-40 $\mu\text{R/hr}$ above background levels. | | |
| | Average dose rate was less than 10 $\mu\text{R/hr}$ above background. | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DRAWING SHOWING MONITORING LOCATIONS

Note: Submit completed form to project file and H&S Manager with Site Access Control Personnel Rosters

Appendix M
Copies of Covenants

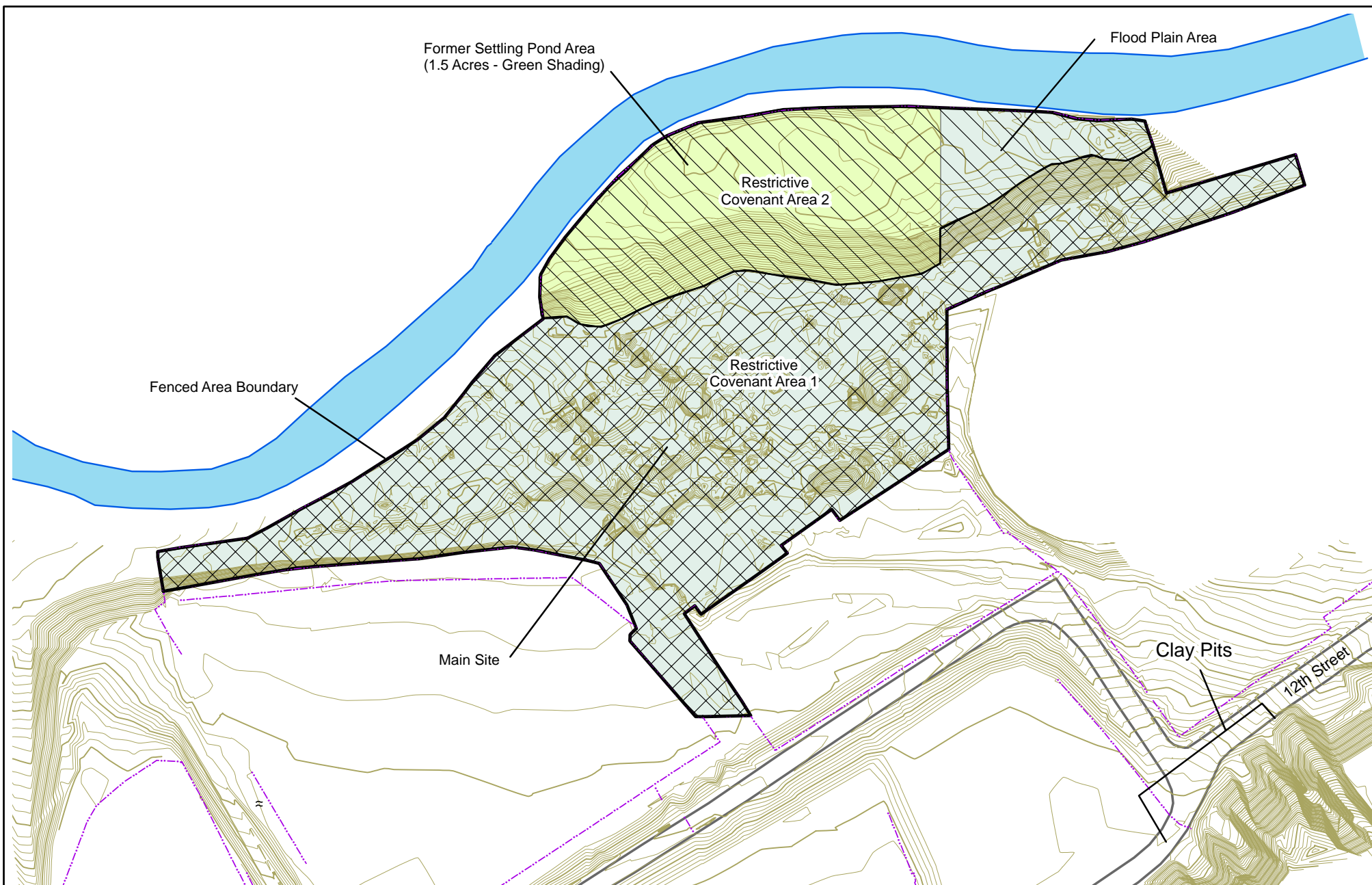


Figure X
CSMRI Site Map
Showing Areas &
Convenants

- Explanation**
- CSMRI Creekside Site
 - Fences
 - Topography (1 ft Intervals)
 - Topography (5 ft Intervals)
 - Roads



Scale: 1" = 150'

0 75 150 300 Feet

CSMRI
Dec 2007
Remedial Implementation Report

Stoller

**This property is subject to an Environmental Covenant held by
the Colorado Department of Public Health and Environment
pursuant to 25-15-321, C.R.S.**

**ENVIRONMENTAL COVENANT – RESIDENTIAL RADON
MITIGATION**

By this deed, the State of Colorado acting by and through the Board of Trustees of the Colorado School of Mines (the “**State**”) grants an Environmental Covenant (“**Covenant**”) this ____ day of ____, 2007 (the “**Effective Date**”), to the Colorado Department of Public Health and Environment (the “**Department**”) pursuant to C.R.S. § 25-15-321 of the Colorado Hazardous Waste Act, C.R.S. §§ 25-15-101, *et seq.* The Department’s address is 4300 Cherry Creek Drive South, Denver, Colorado 80246-1530.

WHEREAS, the State is the owner of a certain parcel of property which is more particularly described in Exhibit A attached hereto (the “**State Parcel**”);

WHEREAS, the City of Golden, Colorado (the “**City**”) is the owner of a certain parcel of property more particularly described in Exhibit B attached hereto (the “**Golden Parcel**”);

WHEREAS, a parcel of property located partially on the State Parcel and partially on the Golden Parcel which is more particularly described in Exhibit C attached hereto (the “**CSMRI Site**”), was used for, among other things, mining and metallurgical research for approximately 70 years, and as a result, the soil at the CSMRI Site has an elevated concentration of radium 226 (Ra-226), and some geologic formations at the CSMRI Site have unusually high background concentrations of Ra-226;

WHEREAS, the relative locations of the State Parcel, the Golden Parcel, and the CSMRI Site are indicated in Exhibit D;

WHEREAS, pursuant to the 2007 Revised Remedial Investigation and Feasibility Study for the CSMRI Site (the “**2007 Revised RI/FS**”) and the 2007 Record of Decision for the CSMRI Site, the CSMRI Site was the subject of remedial action pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§ 9601, *et seq.* (“**CERCLA**”) and the Applicable or Relevant and Appropriate Requirements (the “**ARARs**”) as identified in the 2007 Revised RI/FS, including the radiation control regulations;

WHEREAS, that portion of the CSMRI Site, which is more particularly described in Exhibit E attached hereto and which is owned by the State as of the Effective Date as indicated by the documents recorded as of the Effective Date in the office of the clerk and recorder of Jefferson County, Colorado, shall be referred to herein as the “**Property**”;

WHEREAS, the State, to ensure protection of human health and the environment, desires to subject the Property to the restrictions described in this Covenant;

WHEREAS, the purpose of this Covenant is to ensure protection of human health and the environment by (1) requiring that any residential structures on the Property be equipped with a radon mitigation system in order to protect future site residents from radon emanation resulting from Ra-226 soil concentrations, and (2) prohibiting any beneficial uses of the ground water under the Property; and

WHEREAS, the State desires to subject the Property to certain covenants and restrictions as provided in Article 15 of Title 25 of Colorado Revised Statutes, which covenants and restrictions shall burden the Property and bind the State, its heirs, successors, assigns, and any grantees of the Property, their heirs, successors, assigns and grantees, and any users of the Property, for the benefit of the Department.

NOW, THEREFORE, the State hereby grants this Environmental Covenant to the Department and declares that the Property shall hereinafter be bound by, held, sold, and conveyed subject to the following requirements set forth in paragraph 1 below, which shall run with the Property in perpetuity and be binding on the State and all parties having any right, title or interest in the Property, or any part thereof, their heirs, successors and assigns, and any persons using the land, as described herein. The State, its successors, and all parties having any right, title or interest in the Property, or any part thereof, their heirs, successors and assigns shall hereinafter be referred to in this covenant as **“OWNER”**.

1) Use restrictions.

- A. No residential structure, or similar structure requiring similar restrictions, such as medical facilities or child day care centers, may be constructed on the Property without a properly designed radon mitigation system as approved by the Department.
- B. No beneficial uses of the ground water under the Property.
- C. A Soils Management Plan shall be required for soils that may be disturbed in the future by construction activities or similar soil disturbing activities.

2) Purpose of this Covenant. The purpose of this Covenant is to ensure protection of human health and the environment by minimizing the potential for exposure to radon from radium 226 that remains in the soil on the Property and to any uranium that remains in the ground water under the Property. The Covenant will accomplish this by requiring any new residential structure on the Property to be equipped with an appropriate radon mitigation system that provides for radon venting, and by creating a review and approval process to ensure that any such

radon mitigation system is designed with appropriate precautions to avoid or eliminate potential exposures to radon. This Covenant will also accomplish this by prohibiting any beneficial use of the ground water under the Property.

3) Modifications. This Covenant runs with the land and is perpetual, unless modified or terminated pursuant to this paragraph. OWNER or its successors and assigns may request that the Department approve a modification or termination of the Covenant. The request shall contain information showing that the proposed modification or termination shall, if implemented, ensure protection of human health and environment. The Department shall review any submitted information, and may request additional information. If the Department determines that the proposal to modify or terminate the Covenant will ensure protection of human health and environment, it shall approve the proposal. No modification or termination of this Covenant shall be effective unless the Department has approved such modification or termination in writing. Information to support a request for modification may include one or more of the following:

- a) a proposal to perform additional remedial work;
- b) new information regarding the risks posed by the residual contamination;
- c) information demonstrating that residual contamination has diminished;
- d) information demonstrating that the proposed modification would not adversely impact the remedy and is protective of human health and the environment; and
- e) other appropriate supporting information.

4) Conveyances. This Covenant is intended to run with the land and shall be binding upon all subsequent owners of all or any part of the Property. OWNER shall notify the Department at least fifteen (15) days in advance of any proposed grant, transfer or conveyance of any interest in any or all of the Property.

5) Notice to Transferees. OWNER agrees to incorporate either in full or by reference the restrictions in this Covenant in any leases, licenses, transfers of any interest in the Property, or other instruments granting a right to use the Property.

6) Notification for proposed construction and land use. OWNER shall notify the Department simultaneously when submitting any application to a local government for building permit or change in land use.

7) Inspection. The Department shall have the right of entry to the Property at reasonable times with prior notice for the purpose of determining compliance with the terms of this Covenant. Nothing in this Covenant shall impair any other authority the Department may otherwise have to enter and inspect on the Property.

8) No Liability. The Department does not acquire any liability under State law by virtue of accepting this Covenant.

9) Enforcement. The Department may enforce the terms of this Covenant pursuant to C.R.S. § 25-15-322. The Department may file suit in district court to enjoin actual or threatened violations of this Covenant.

10) Owner's Compliance Certification. OWNER shall submit an annual form, detailing OWNER's compliance, and any lack of compliance, with the terms of this Covenant. Such form will be due to the Department forty-five (45) days after OWNER's receipt of such form from the Department.

11) Acknowledgment. The State acknowledges that an additional portion of the State Parcel is subject to another environmental covenant restricting the uses of such parcel to uses other than for residential purposes and prohibiting the beneficial use of ground water. Such covenant, entitled ENVIRONMENTAL COVENANT – NO RESIDENTIAL USE (the “**Additional Covenant**”) and entered into as of _____, 2007 between the State and the Department is recorded in the office of the clerk and recorder of Jefferson County, Colorado. The State acknowledges that the Golden Parcel is subject to environmental covenants with terms and conditions similar to those contained in the Additional Covenant. Such covenants, entitled ENVIRONMENTAL COVENANT – NO RESIDENTIAL USE and entered into as of _____, 2007 between the City of Golden and the Department are recorded in the office of the clerk and recorder of Jefferson County, Colorado. Nothing contained herein shall subject any real property other than that owned by the State as of the Effective Date to the restrictions described in this Covenant.

12) Notices. Any document or communications required under this Covenant shall be sent or directed to:

[Name_____]

[Title _____]

Hazardous Materials and Waste Management Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

President
Colorado School of Mines
1500 Illinois Street
Golden, Colorado 80401

[SIGNATURES APPEAR ON FOLLOWING PAGES.]

The State of Colorado has caused this instrument to be executed this _____ day of _____, 200____.

State of Colorado

By: _____

Title: _____

The foregoing instrument was acknowledged before me this ____ day of _____, ____ by _____ as _____ on behalf of the State.

Notary Public

Address

My commission expires: _____

Accepted by the Colorado Department of Public Health and Environment this
_____ day of _____, _____.

By: _____

Title: _____

STATE OF _____)
) ss:
COUNTY OF _____)

The foregoing instrument was acknowledged before me this ____ day of
_____, _____ by _____ as _____ on behalf of the
Colorado Department of Public Health and Environment.

Notary Public

Address

My commission expires: _____

**This property is subject to an Environmental Covenant held by
the Colorado Department of Public Health and Environment
pursuant to 25-15-321, C.R.S.**

ENVIRONMENTAL COVENANT- NO RESIDENTIAL USE

By this deed, the City of Golden (the “**City**”) grants an Environmental Covenant (“**Covenant**”) this ____ day of ____, 2008 (the “**Effective Date**”), to the Colorado Department of Public Health and Environment (the “**Department**”) pursuant to C.R.S. § 25-15-321 of the Colorado Hazardous Waste Act, C.R.S. §§ 25-15-101, *et seq.* The Department’s address is 4300 Cherry Creek Drive South, Denver, Colorado 80246-1530.

WHEREAS, the City is the owner of a certain parcel of property which is more particularly described in Exhibit A attached hereto (the “**Golden Parcel**”);

WHEREAS, the State of Colorado acting by and through the Board of Trustees of the Colorado School of Mines (the “**State**”) is the owner of a certain parcel of property more particularly described in Exhibit B attached hereto (the “**State Parcel**”);

WHEREAS, a parcel of property located partially on the State Parcel and partially on the Golden Parcel which is more particularly described in Exhibit C attached hereto (the “**CSMRI Site**”), was used for, among other things, mining and metallurgical research for approximately 70 years, and as a result, the soil at the CSMRI Site has an elevated concentration of radium 226 (Ra-226), and some geologic formations at the CSMRI Site have unusually high background concentrations of Ra-226;

WHEREAS, the relative locations of the State Parcel, the Golden Parcel, and the CSMRI Site are indicated in Exhibit D;

WHEREAS, pursuant to the 2007 Revised Remedial Investigation and Feasibility Study for the CSMRI Site (the “**2007 Revised RI/FS**”) and the 2007 Record of Decision for the CSMRI Site, the CSMRI Site was the subject of remedial action pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§ 9601, *et seq.* (“**CERCLA**”) and the Applicable or Relevant and Appropriate Requirements (the “**ARARs**”) as identified in the 2007 Revised RI/FS, including the radiation control regulations;

WHEREAS, the City, to ensure protection of human health and the environment, desires to subject the Golden Parcel to the restrictions described in this Covenant;

WHEREAS, the purpose of this Covenant is to ensure protection of human health and the environment by (1) requiring that no residential structures be located on the Golden Parcel in order to protect persons from radon emanation resulting from Ra-226 soil concentrations, (2) requiring that no commercial or industrial structure may be located on the Golden Parcel without a proper radon mitigation system, and (3) prohibiting any beneficial uses of the ground water under the Golden Parcel; and

WHEREAS, the City desires to subject the Golden Parcel to certain covenants and restrictions as provided in Article 15 of Title 25 of Colorado Revised Statutes, which covenants and restrictions shall burden the Golden Parcel and bind the City, its heirs, successors, assigns, and any grantees of the Golden Parcel, their heirs, successors, assigns and grantees, and any users of the Golden Parcel, for the benefit of the Department.

NOW, THEREFORE, the City hereby grants this Environmental Covenant to the Department and declares that the Golden Parcel shall hereinafter be bound by, held, sold, and conveyed subject to the following requirements set forth in paragraph 1 below, which shall run with the Golden Parcel in perpetuity and be binding on the City and all parties having any right, title or interest in the Golden Parcel, or any part thereof, their heirs, successors and assigns, and any persons using the land, as described herein. The City, its successors, and all parties having any right, title or interest in the Golden Parcel, or any part thereof, their heirs, successors and assigns shall hereinafter be referred to in this covenant as **“OWNER”**.

1) Use restrictions.

- A. No residential structure, or similar structure requiring similar restrictions, such as medical facilities or child day care centers, may be located on the Golden Parcel.
- B. No commercial structure or industrial structure may be constructed on the Golden Parcel without a properly designed radon mitigation system as approved by the Department.
- C. No beneficial uses of the ground water under the Golden Parcel.
- D. A Soils Management Plan shall be required for soils that may be disturbed in the future by construction activities or similar soil disturbing activities.

2) Purpose of this Covenant. The purpose of this Covenant is to ensure protection of human health and the environment by minimizing the potential for exposure to radon from radium 226 that remains in the soil on the Golden Parcel and to any uranium that remains in the ground water under the Golden Parcel. The Covenant will accomplish this by prohibiting any residential structure be located on the Golden Parcel and by prohibiting any beneficial use of the ground water under the Golden Parcel. The Covenant will also accomplish this by

requiring any new commercial or industrial structure on the Golden Parcel to be equipped with an appropriate radon mitigation system that provides for radon venting, and by creating a review and approval process to ensure that such radon mitigation system is designed with appropriate precautions to avoid or eliminate potential exposures to radon.

3) Modifications. This Covenant runs with the land and is perpetual, unless modified or terminated pursuant to this paragraph. OWNER or its successors and assigns may request that the Department approve a modification or termination of the Covenant. The request shall contain information showing that the proposed modification or termination shall, if implemented, ensure protection of human health and environment. The Department shall review any submitted information, and may request additional information. If the Department determines that the proposal to modify or terminate the Covenant will ensure protection of human health and environment, it shall approve the proposal. No modification or termination of this Covenant shall be effective unless the Department has approved such modification or termination in writing. Information to support a request for modification may include one or more of the following:

- a) a proposal to perform additional remedial work;
- b) new information regarding the risks posed by the residual contamination;
- c) information demonstrating that residual contamination has diminished;
- d) information demonstrating that the proposed modification would not adversely impact the remedy and is protective of human health and the environment; and
- e) other appropriate supporting information.

4) Conveyances. This Covenant is intended to run with the land and shall be binding upon all subsequent owners of all or any part of the Golden Parcel. OWNER shall notify the Department at least fifteen (15) days in advance of any proposed grant, transfer or conveyance of any interest in any or all of the Golden Parcel.

5) Notice to Transferees. OWNER agrees to incorporate either in full or by reference the restrictions in this Covenant in any leases, licenses, transfers of any interest in the Golden Parcel, or other instruments granting a right to use the Golden Parcel.

6) Notification for proposed construction and land use. OWNER shall notify the Department simultaneously when submitting any application to a local government for building permit or change in land use.

- 7) Inspection. The Department shall have the right of entry to the Golden Parcel at reasonable times with prior notice for the purpose of determining compliance with the terms of this Covenant. Nothing in this Covenant shall impair any other authority the Department may otherwise have to enter and inspect on the Golden Parcel.
- 8) No Liability. The Department does not acquire any liability under State law by virtue of accepting this Covenant.
- 9) Enforcement. The Department may enforce the terms of this Covenant pursuant to C.R.S. § 25-15-322. The Department may file suit in district court to enjoin actual or threatened violations of this Covenant.
- 10) Owner's Compliance Certification. OWNER shall submit an annual form, detailing OWNER's compliance, and any lack of compliance, with the terms of this Covenant. Such form will be due to the Department forty-five (45) days after OWNER's receipt of such form from the Department.
- 11) Acknowledgment. The City acknowledges that a portion of the State Parcel is subject to environmental covenants with terms and conditions similar to those contained in this Covenant. Such covenants, entitled ENVIRONMENTAL COVENANT – NO RESIDENTIAL USE and entered into as of _____, 2008 between the State and the Department are recorded in the office of the clerk and recorder of Jefferson County, Colorado. The City acknowledges that an additional portion of the State Parcel is subject to additional environmental covenants requiring a radon mitigation system in residential structures located on such parcel and prohibiting the beneficial use of ground water. Such covenants, entitled ENVIRONMENTAL COVENANT – RESIDENTIAL RADON MITIGATION and entered into as of _____, 2008 between the State and the Department is recorded in the office of the clerk and recorder of Jefferson County, Colorado. Nothing contained herein shall subject any real property other than the Golden Parcel to the restrictions described in this Covenant.
- 12) Notices. Any document or communications required under this Covenant shall be sent or directed to:

[Name_____]

[Title _____]

Hazardous Materials and Waste Management Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

Mayor
City of Golden
City Hall

10th and Washington
Golden, Colorado [_____]

[SIGNATURES APPEAR ON FOLLOWING PAGES.]

The City of Golden has caused this instrument to be executed this _____ day of _____, 200____.

City of Golden

By: _____

Title: _____

The foregoing instrument was acknowledged before me this ____ day of _____, ____ by _____ as _____ on behalf of the City of Golden.

Notary Public

Address

My commission expires: _____

Accepted by the Colorado Department of Public Health and Environment this
_____ day of _____, _____.

By: _____

Title: _____

STATE OF _____)
) ss:
COUNTY OF _____)

The foregoing instrument was acknowledged before me this ____ day of
_____, _____ by _____ as _____ on behalf of the
Colorado Department of Public Health and Environment.

Notary Public

Address

My commission expires: _____

**This property is subject to an Environmental Covenant held by
the Colorado Department of Public Health and Environment
pursuant to 25-15-321, C.R.S.**

ENVIRONMENTAL COVENANT – NO RESIDENTIAL USE

By this deed, the State of Colorado acting by and through the Board of Trustees of the Colorado School of Mines (the “**State**”) grants an Environmental Covenant (“**Covenant**”) this ____ day of ____, 2008 (the “**Effective Date**”), to the Colorado Department of Public Health and Environment (the “**Department**”) pursuant to C.R.S. § 25-15-321 of the Colorado Hazardous Waste Act, C.R.S. §§ 25-15-101, *et seq.* The Department’s address is 4300 Cherry Creek Drive South, Denver, Colorado 80246-1530.

WHEREAS, the State is the owner of a certain parcel of property which is more particularly described in Exhibit A attached hereto (the “**State Parcel**”);

WHEREAS, the City of Golden, Colorado (the “**City**”) is the owner of a certain parcel of property more particularly described in Exhibit B attached hereto (the “**Golden Parcel**”);

WHEREAS, a parcel of property located partially on the State Parcel and partially on the Golden Parcel which is more particularly described in Exhibit C attached hereto (the “**CSMRI Site**”), was used for, among other things, mining and metallurgical research for approximately 70 years, and as a result, the soil at the CSMRI Site has an elevated concentration of radium 226 (Ra-226), and some geologic formations at the CSMRI Site have unusually high background concentrations of Ra-226;

WHEREAS, the relative locations of the State Parcel, the Golden Parcel, and the CSMRI Site are indicated in Exhibit D;

WHEREAS, pursuant to the 2007 Revised Remedial Investigation and Feasibility Study for the CSMRI Site (the “**2007 Revised RI/FS**”) and the 2007 Record of Decision for the CSMRI Site, the CSMRI Site was the subject of remedial action pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§ 9601, *et seq.* (“**CERCLA**”) and the Applicable or Relevant and Appropriate Requirements (the “**ARARs**”) as identified in the 2007 Revised RI/FS, including the radiation control regulations;

WHEREAS, that portion of the CSMRI Site, which is more particularly described in Exhibit E attached hereto and which is owned by the State as of the Effective Date as indicated by the documents recorded as of the Effective Date in the office of the clerk and recorder of Jefferson County, Colorado, shall be referred to herein as the “**Property**”;

WHEREAS, the State, to ensure protection of human health and the environment, desires to subject the Property to the restrictions described in this Covenant;

WHEREAS, the purpose of this Covenant is to ensure protection of human health and the environment by (1) requiring that no residential structures be located on the Property in order to protect persons from radon emanation resulting from Ra-226 soil concentrations, (2) requiring that no commercial or industrial structure may be located on the Property without a proper radon mitigation system, and (3) prohibiting any beneficial uses of the ground water under the Property; and

WHEREAS, the State desires to subject the Property to certain covenants and restrictions as provided in Article 15 of Title 25 of Colorado Revised Statutes, which covenants and restrictions shall burden the Property and bind the State, its heirs, successors, assigns, and any grantees of the Property, their heirs, successors, assigns and grantees, and any users of the Property, for the benefit of the Department.

NOW, THEREFORE, the State hereby grants this Environmental Covenant to the Department and declares that the Property shall hereinafter be bound by, held, sold, and conveyed subject to the following requirements set forth in paragraph 1 below, which shall run with the Property in perpetuity and be binding on the State and all parties having any right, title or interest in the Property, or any part thereof, their heirs, successors and assigns, and any persons using the land, as described herein. The State, its successors, and all parties having any right, title or interest in the Property, or any part thereof, their heirs, successors and assigns shall hereinafter be referred to in this covenant as **“OWNER”**.

1) Use restrictions.

- A. No residential structure, or similar structure requiring similar restrictions, such as medical facilities or child day care centers, may be located on the Property.
- B. No commercial structure or industrial structure may be constructed on the Property without a properly designed radon mitigation system as approved by the Department.
- C. No beneficial uses of the ground water under the Property.
- D. A Soils Management Plan shall be required for soils that may be disturbed in the future by construction activities or similar soil disturbing activities.

2) Purpose of this Covenant. The purpose of this Covenant is to ensure protection of human health and the environment by minimizing the potential for exposure to radon from radium 226 that remains in the soil on the Property and to

any uranium that remains in the ground water under the Property. The Covenant will accomplish this by prohibiting any residential structure be located on the Property and by prohibiting any beneficial use of the ground water under the Property. The Covenant will also accomplish this by requiring any new commercial or industrial structure on the Property to be equipped with an appropriate radon mitigation system that provides for radon venting, and by creating a review and approval process to ensure that any such radon mitigation system is designed with appropriate precautions to avoid or eliminate potential exposures to radon.

3) Modifications. This Covenant runs with the land and is perpetual, unless modified or terminated pursuant to this paragraph. OWNER or its successors and assigns may request that the Department approve a modification or termination of the Covenant. The request shall contain information showing that the proposed modification or termination shall, if implemented, ensure protection of human health and environment. The Department shall review any submitted information, and may request additional information. If the Department determines that the proposal to modify or terminate the Covenant will ensure protection of human health and environment, it shall approve the proposal. No modification or termination of this Covenant shall be effective unless the Department has approved such modification or termination in writing. Information to support a request for modification may include one or more of the following:

- a) a proposal to perform additional remedial work;
- b) new information regarding the risks posed by the residual contamination;
- c) information demonstrating that residual contamination has diminished;
- d) information demonstrating that the proposed modification would not adversely impact the remedy and is protective of human health and the environment; and
- e) other appropriate supporting information.

4) Conveyances. This Covenant is intended to run with the land and shall be binding upon all subsequent owners of all or any part of the Property. OWNER shall notify the Department at least fifteen (15) days in advance of any proposed grant, transfer or conveyance of any interest in any or all of the Property.

5) Notice to Transferees. OWNER agrees to incorporate either in full or by reference the restrictions in this Covenant in any leases, licenses, transfers of any interest in the Property, or other instruments granting a right to use the Property.

6) Notification for proposed construction and land use. OWNER shall notify the Department simultaneously when submitting any application to a local government for building permit or change in land use.

- 7) Inspection. The Department shall have the right of entry to the Property at reasonable times with prior notice for the purpose of determining compliance with the terms of this Covenant. Nothing in this Covenant shall impair any other authority the Department may otherwise have to enter and inspect on the Property.
- 8) No Liability. The Department does not acquire any liability under State law by virtue of accepting this Covenant.
- 9) Enforcement. The Department may enforce the terms of this Covenant pursuant to C.R.S. § 25-15-322. The Department may file suit in district court to enjoin actual or threatened violations of this Covenant.
- 10) Owner's Compliance Certification. OWNER shall submit an annual form, detailing OWNER's compliance, and any lack of compliance, with the terms of this Covenant. Such form will be due to the Department forty-five (45) days after OWNER's receipt of such form from the Department.
- 11) Acknowledgment. The State acknowledges that an additional portion of the State Parcel is subject to another environmental covenant requiring residential structures to be equipped with radon mitigation systems and prohibiting the beneficial use of ground water. Such covenant, entitled ENVIRONMENTAL COVENANT – RESIDENTIAL RADON MITIGATION (the “**Additional Covenant**”) and entered into as of _____, 2008 between the State and the Department is recorded in the office of the clerk and recorder of Jefferson County, Colorado. The State acknowledges that the Golden Parcel is subject to environmental covenants with terms and conditions similar to those contained in the Additional Covenant. Such covenants, entitled ENVIRONMENTAL COVENANT – NO RESIDENTIAL USE and entered into as of _____, 2008 between the City of Golden and the Department are recorded in the office of the clerk and recorder of Jefferson County, Colorado. Nothing contained herein shall subject any real property other than that owned by the State as of the Effective Date to the restrictions described in this Covenant.
- 12) Notices. Any document or communications required under this Covenant shall be sent or directed to:

[Name_____]

[Title_____]

Hazardous Materials and Waste Management Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

and

President
Colorado School of Mines
1500 Illinois Street
Golden, Colorado 80401

[SIGNATURES APPEAR ON FOLLOWING PAGES.]

The State of Colorado has caused this instrument to be executed this _____ day of _____, 200____.

State of Colorado

By: _____

Title: _____

The foregoing instrument was acknowledged before me this ____ day of _____, ____ by _____ as _____ on behalf of the State.

Notary Public

Address

My commission expires: _____

Accepted by the Colorado Department of Public Health and Environment this
_____ day of _____, _____.

By: _____

Title: _____

STATE OF _____)
) ss:
COUNTY OF _____)

The foregoing instrument was acknowledged before me this ____ day of
_____, _____ by _____ as _____ on behalf of the
Colorado Department of Public Health and Environment.

Notary Public

Address

My commission expires: _____

Appendix N

MicroShield 7.0 Evaluation

Evaluation of Doses for Recreational Use of a Walking/Bike Path Along Clear Creek on the Lower Terrace (Flood Plain and Former Pond Areas), Colorado School of Mines Remedial Investigation Site, Golden, Colorado

Introduction

The dose to recreationists (bikers, walkers, sightseers) exposed to Ra-226 contamination at the Colorado School of Mines Research Institution (CSMRI) remedial investigation site was evaluated using MicroShield 7.0 computer code (Grove Software 2005). MicroShield is a comprehensive photon/gamma ray shielding and dose assessment program that is widely used for designing shields, estimating source strength from radiation measurements, minimizing exposure to people, and teaching shielding principles. MicroShield is useful to health physicists, waste managers, design engineers, and radiological engineers and only requires a basic knowledge of radiation and shielding principles. MicroShield is fully interactive and incorporates extensive input error checking.

MicroShield was used for external gamma dose calculations because it more accurately models the geometry of the source, shields, and location of the receptor and uses an extensive library of data (radionuclides, attenuation, buildup, and dose conversion) which reflect standard data from the Radiation Safety Information Computational Center (RSICC), American Nuclear Society (ANS), and International Commission on Radiological Protection (ICRP).

Assumptions

The following conservative assumptions were used:

- The recreationist spends 1 hour/day for 365 days or 365 hours/yr at the site.
- Doses at each location are calculated assuming that the entire hour is spent on that contamination point.
- The area exposed to Ra-226 contamination is 2 ft by 450 ft. This is a path through the zones of highest contamination.
- The specified radionuclide concentration (Table 1) occurs in a 1 meter radius and a 1.2 meter depth (geometry is cylindrical) at each sampling point within this area.
- The maximum exposure occurs 1 m (3 ft) above the surface.
- There is no shielding.
- Buildup is included in the calculations.
- External exposure is the only pathway considered. There is no dose from ingestion or inhalation.
- Ra-226 is in equilibrium with its daughters. Bi-214 is the major dose contributor under this assumption. If the assumption is made that Ra-226 is not in equilibrium, then doses would be reduced by more than 99%.

Figure 1 shows the Sample ID point distribution for non-excavated confirmation samples and non-excavated surface and subsurface samples. The measured concentrations of Ra-226 (pCi/g) were entered into MicroShield to calculate the dose at each sampling location. Each sample location was buffered by a 1 m (3 ft) radius to represent the area assumption selected for the

MicroShield dose calculations. The buffered points are color-coded to match the dose categories displayed in the Figure 2 map legend.

Each sampling point dose (mrem/yr) was used to interpolate a continuous surface through this site. The Inverse Distance Weighted (IDW) function was used within the ArcGIS 9.2 Spatial Analyst extension to perform the interpolation, and color-coded (Shepard 1968; Watson and Philip 1985). The result is a grayscale image where brighter regions represent higher doses and darker regions represent lower doses. The interpolated surface provides a visualization tool to understand how the dose varies spatially across the entire site.

A two-foot wide path through this site was manually digitized attempting to represent a worst-case scenario where the path is intentionally routed through regions of greatest dose (Figure 2, Table 1). The total length of the potential path is 450 ft. Assuming a slow travel speed of 2 mph (i.e., comparable to someone walking the trail), an individual would realistically be exposed to these doses for a total of 2.5 minutes (versus the one hour assumed for these calculations) to complete the trail.

Table 1
Doses corresponding to each sample at the
CSMRI Site along Clear Creek

| Sample # | Ra-226 pCi/g | MicroShield Dose (mrem/yr) |
|----------|--------------|----------------------------|
| 1207 | 3.81 | 1.78E-03 |
| 1208 | 4.00 | 1.86E-03 |
| 1209 | 4.19 | 1.95E-03 |
| 1215 | 2.93 | 1.37E-03 |
| 1219 | 3.23 | 1.50E-03 |
| 1221 | 3.73 | 1.74E-03 |
| 1224 | 2.36 | 1.10E-03 |
| 1225 | 3.68 | 1.71E-03 |
| 1236 | 5.34 | 2.49E-03 |
| 1239 | 3.82 | 1.78E-03 |
| 1241 | 3.14 | 1.46E-03 |
| 1244 | 2.89 | 1.35E-03 |
| 1255 | 5.63 | 2.62E-03 |
| 1258 | 5.63 | 2.62E-03 |
| 1259 | 4.19 | 1.95E-03 |
| 1261 | 10.91 | 5.08E-03 |
| 1262 | 3.03 | 1.41E-03 |
| 1263 | 3.74 | 1.74E-03 |
| 1268 | 3.70 | 1.72E-03 |
| 1269 | 3.36 | 1.57E-03 |
| 1272 | 3.49 | 1.63E-03 |
| 1275 | 4.42 | 2.06E-03 |
| 1276 | 7.61 | 3.55E-03 |
| 1277 | 6.90 | 3.22E-03 |
| 1278 | 4.33 | 2.02E-03 |
| 1314 | 5.55 | 2.59E-03 |
| 1315 | 6.62 | 3.09E-03 |
| 1316 | 6.27 | 2.92E-03 |
| 1317 | 4.17 | 1.94E-03 |
| 1318 | 4.58 | 2.14E-03 |

Table 1
Doses corresponding to each sample at the
CSMRI Site along Clear Creek

| Sample # | Ra-226 pCi/g | MicroShield Dose (mrem/yr) |
|----------|--------------|----------------------------|
| 1319 | 4.79 | 2.23E-03 |
| 1320 | 24.25 | 1.13E-02 |
| 1321 | 6.75 | 3.14E-03 |
| 1322 | 8.22 | 3.83E-03 |
| 1323 | 5.79 | 2.70E-03 |
| 1324 | 4.71 | 2.19E-03 |
| 1325 | 3.99 | 1.86E-03 |
| 1326 | 4.57 | 2.13E-03 |
| 1327 | 6.06 | 2.82E-03 |
| 1328 | 6.22 | 2.90E-03 |
| 1329 | 8.63 | 4.02E-03 |
| 1330 | 7.32 | 3.41E-03 |
| 1331 | 2.64 | 1.23E-03 |
| Mean | 5.38 | 2.51E-03 |
| Median | 4.42 | 2.06E-03 |
| Maximum | 24.25 | 1.13E-02 |
| Minimum | 2.36 | 1.10E-03 |

Conclusions

It is reasonable to conclude that the actual doses are below those calculated with MicroShield due to shielding from soil and vegetation as well as any improvements or covering on the path; distance from the contaminated points; and actual time spent in the area.

Based on these calculations and the conservative nature of the assumptions, it can reasonably be concluded that recreationists using the CSMRI recreational path are not subjected to radiological dose above the regulatory limits of 25 mrem/yr. It can also be reasonably concluded that a realistic dose scenario would produce doses much lower (by as much as 96%) than those determined through the conservative calculations. The maximum dose to which a recreationist would be subjected (1.13E-2 mrem/yr) is 0.05 percent of the 25 mrem/yr regulatory limit (Table 1). The doses from Old Pond area (Table 2) (using the same assumptions) are well below the regulatory limits as well.

Table 2
Doses from Ra-226 left in Old Pond area

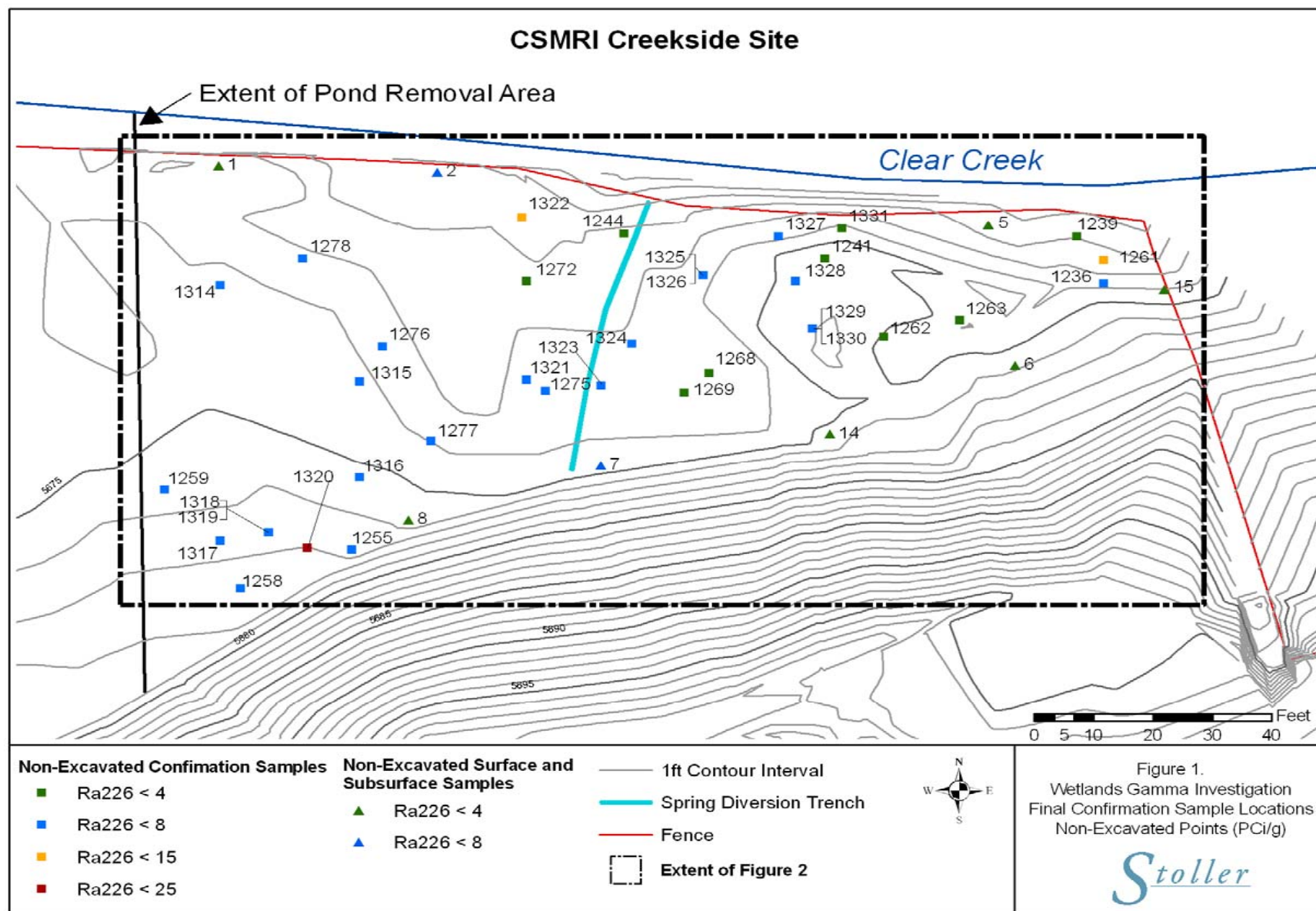
| Soils Ra-226 Concentrations (pCi/g) | Soil Depth (inches) | Dose (mrem/yr) |
|-------------------------------------|---------------------|----------------|
| 5 | 6 | 1.52E-03 |
| 15 | 6-60 | 7.85E-03 |
| | TOTAL | 9.37E-03 |

References

Grove Software. 2005. Micro Shield 7.0 Dose Assessment Program. Grove Software, Inc., Lynchburg, Virginia.

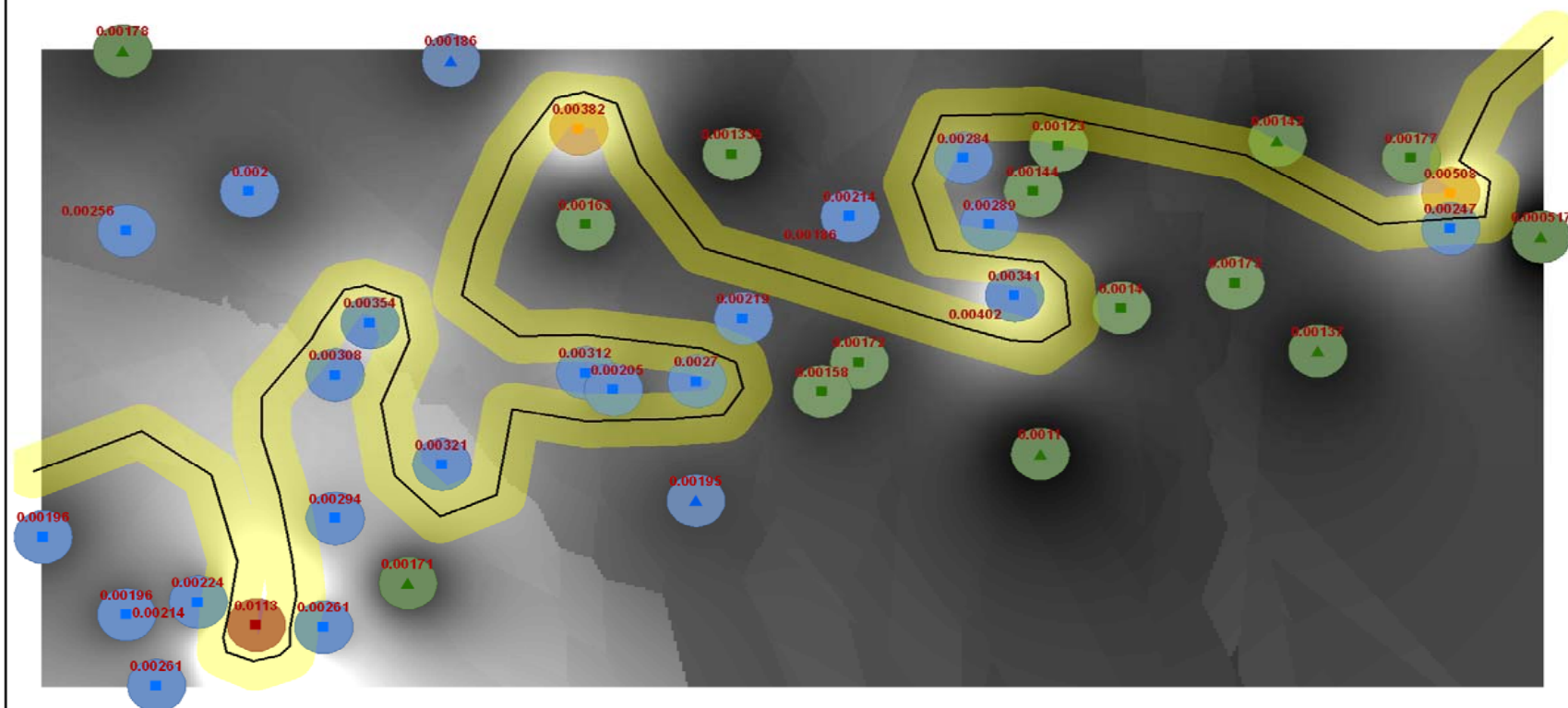
Shepard, D. 1968. A two-dimensional interpolation function for irregularly-spaced data. Proc. 23rd ACM National Conference, 517-524.

Watson, D.F., and G.M. Philip. 1985. A Refinement of Inverse Distance Weighted Interpolation. *Geoprocessing*, 2:315-327. 1985.



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CSMRI Creekside Site



Non-Excavated Confirmation Samples

- mrem/yr < 1.8E-03
- mrem/yr < 3.6E-03
- mrem/yr < 5.1E-03
- mrem/yr < 1.2E-02

Non-Excavated Surface and Subsurface Samples

- ▲ mrem/yr < 1.8E-03
- ▲ mrem/yr < 3.6E-03

— Potential Bike Path



0 5 10 20 30 40 Feet

Figure 2.
Wetlands Gamma Investigation
Final Confirmation Sample Locations
Non-Excavated Doses (mrem/yr)

Stoller

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