

December 3, 2004

Mr. Jeff Deckler
Radiation Management Program
Hazardous Materials and Waste Management Division
CPPHE - HMWMD-B2
4300 Cherry Creek Drive South
Denver, CO 80246-1530

SUBJECT: CSMRI CREEKSIDE EXCAVATION FIELD NOTES

Dear Mr. Deckler:

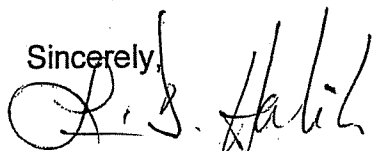
I have attached several examples of the field documents discussed during our meeting on November 23, 2004:

Title	Date	Date Provided to CSM by NHEC
CSMRI Excavation Gamma Survey Field Notes Area E (unsigned)	5-7-04	June 2004
CSMRI Excavation Gamma Survey Field Notes Area E (signed)	5-7-04	October 2004
CSMRI Excavation Gamma Survey Field Notes Area H (unsigned)	5/05/04	June 2004
CSMRI Excavation Gamma Survey Field Notes Area E (signed)	5/05/04	October 2004
Class I Soil Screening Data; Project IH 04-010C; CSMRI Environmental Assessment and Response – Phase II	8/24/2004	8/30/2004

The unsigned copies (Nos. 1 and 3) were provided to CSM by New Horizons Environmental Consultants in June 2004 approximately one month following cessation of excavation work. The signed copies (Nos. 2 and 4) were provided to CSM by NHEC in October 2004 as part of the litigation. The differences between the signed copies and the unsigned copies are highlighted in yellow.

Moreover, the gamma meter readings listed in the 8/24/2004 CSMRI Class I Soil Screening data match the unsigned Excavation Gamma Survey reports provided in June 2004 but not the signed Excavation Gamma Survey reports provided in October 2004. The relevant lines are highlighted in yellow. NHEC was unable to explain the discrepancies.

Sincerely,



Linn D. Havelick, Director

CC: Anne Walker
Asimakis Iatridis



CSMRI EXCAVATION GAMMA SURVEY

Date: 5-7-04

Page 1 of

Area: E

Radiological Technician: Drew (PT)

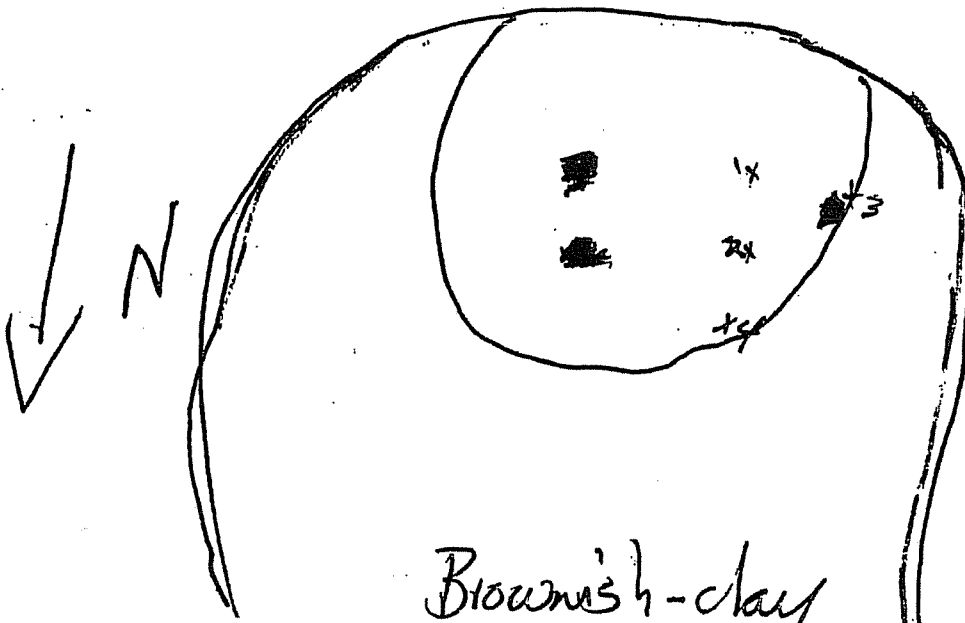
Depth: 1-3 ft

Instrument: Gamma probe

Bag #: 1, 2, 3, 4-5678910

Time		Gross CPM	Time		Gross CPM	Time		Gross CPM
1	1100	1344	11			21		
2	1100	1245	12			22		
3	1102	27039	13			23		
4	1103	31290	14			24		
5			15			25		
6			16			26		
7			17			27		
8			18			28		
9			19			29		
10			20			30		

Drawing



CENTRI EXCAVATION GAMMA SURVEY

Date: 5-7-04

Page 1 of 5

Area: E

Radiological Technician: Drawl (PT)

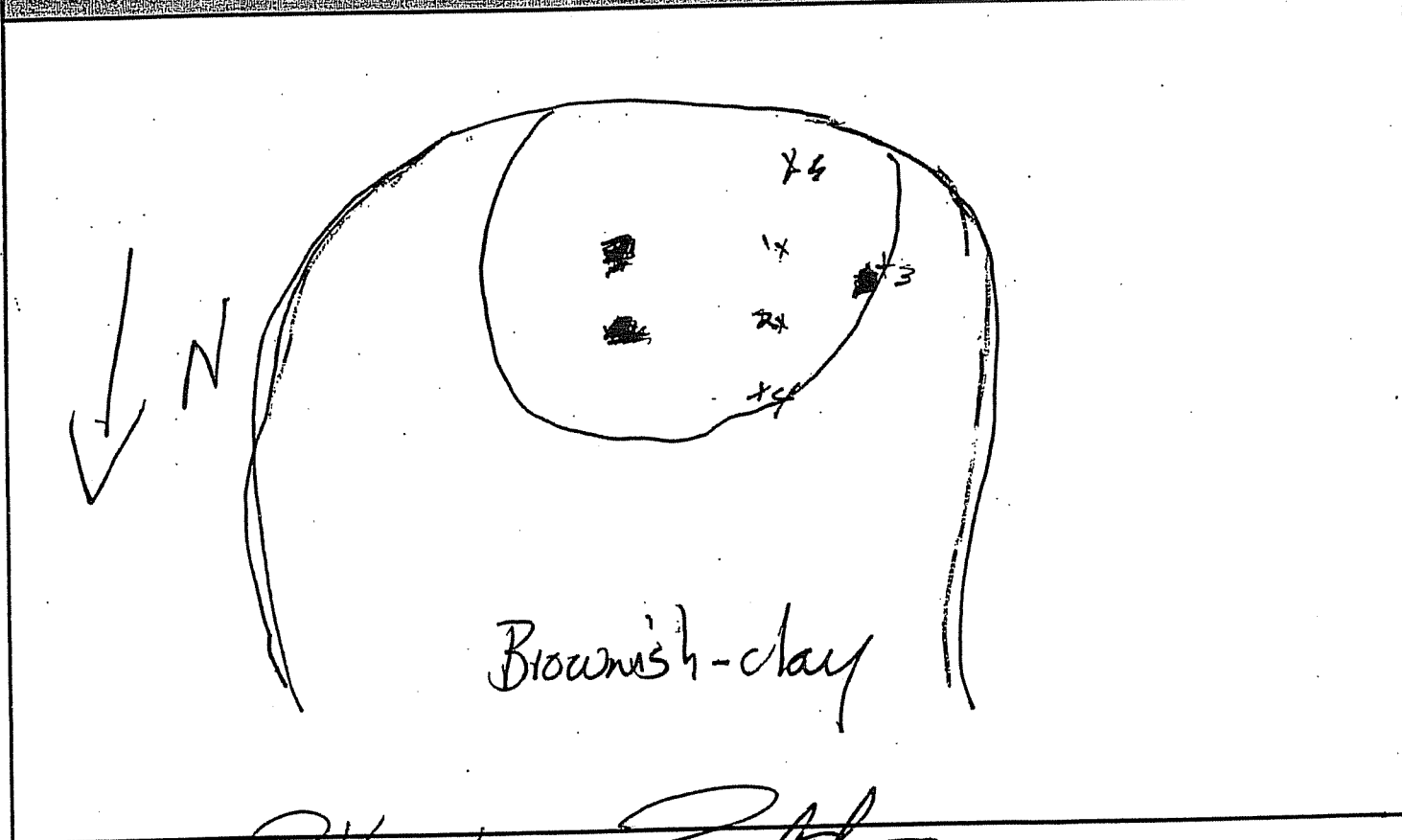
Depth: 1-3 ft

Instrument: Gamma probe

Bag #: 1,2,3,4-5678910

Time		Gross CPM	Time		Gross CPM	Time		Gross CPM
1	1105	1344	11			21		
2	1100	1245	12			22		
3	1102	27039	13			23		
4	1103	31290	14			24		
5	1107	46125	15			25		
6			16			26		
7			17			27		
8			18			28		
9			19			29		
10			20			30		

Drawing



Reviewed by: R. Kumbarger [Signature]
 Print Signature Date

MRI EXCAVATION GAMMA SURVEY

Date: 5/05/04

Page of

Area: H

Radiological Technician: Ogude

Depth: 2' ft

Instrument: 221 Gamma Probe

Bag #: 220-229

Time		Gross CPM	Time		Gross CPM	Time		Gross CPM
1	0845	17,000	11			21		
2	0845	14,350	12			22		
3	0846	13,600	13			23		
4	0846	14,700	14			24		
5	0847	8,046	15			25		
6	0847	7,646	16			26		
7			17			27		
8			18			28		
9			19			29		
10			20			30		

Drawing



Reviewed by: _____
 Print Signature Date

Date: 5/05/04

Radiological Technician: Ogude

Area: H

Instrument: 2221 Gamma Probe

Depth: 2' ft

Bag #: 220-229

Time		Gross CPM		Time	Gross CPM		Time	Gross CPM
1	0845	117,000	11				21	
2	0845	114,350	12				22	
3	0846	113,600	13				23	
4	0846	14,700	14				24	
5	0847	18,040	15				25	
6	0847	17,640	16				26	
7			17				27	
8			18				28	
9			19				29	
10			20				30	

Drawing



Reviewed by:

R. Krummenger

Print

Signature

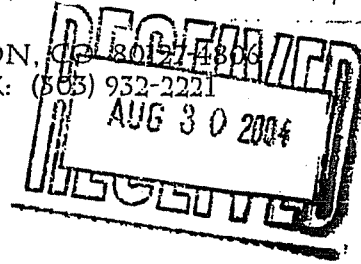
[Handwritten Signature]

Date



NEW HORIZONS ENVIRONMENTAL CONSULTANTS, INC.

6585 S. WRIGHT STREET LITTLETON, CO 80121-4806
TELEPHONE: (303) 932-2220 FAX: (303) 932-2221



August 24, 2004
Project #2135

via facsimile transmission

Linn Havelick
Colorado School of Mines
Chauvenet Hall, Room 194
1015 14th Street
Golden, CO 80401

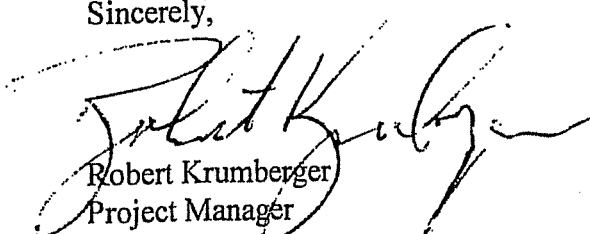
**Re: Class I Soil Screening Data; Project IH 04-010C;
CSMRI Environmental Assessment & Response - Phase II**

Dear Linn:

Pursuant to your recent request, New Horizons Environmental Consultants, Inc. is providing the attached table which summarizes the screening data for Class I Soils which were excavated at the CSMRI site. Screening data was used to guide excavation control as outlined in the approved *Sampling & Analysis Plan (SAP)* dated March 29, 2004 and the approved *Task Plan* (dated March 31, 2004). Laboratory reports will be forwarded under separate cover.

If you have any questions, feel free to contact me at (303) 647-1055.

Sincerely,


Robert Krumberger
Project Manager

attachment

CSMRI Class I Soil Screening Data

Area	Sample ID	Type Code	Gamma Meter Readings (Range)		Radium (ISOCS)	Radium (Paragon)	Notes
			cpm	cpm	pCi/g	pCi/g	
A	A25	1	> 15,000		3.2		
A	A26	1	> 15,000		1.4		
B	B04	1	> 15,000		12		
B	B2	1	> 15,000		44		
E	E05	2	13,441	31,290	12		
E	E32	2	16,780	36,074	34	88	
E	E014	2	13,987	43,093	16		
E	E014S	2	13,987	43,093	16		
H	H-10-2	2	12,000	450,000	433	950	
H	H-10-2S	2	12,000	450,000	437		
H	H-Exc	2	12,000	450,000	157		
H	H-Gray-3	2	12,000	450,000	251		
H	H-Layer	2	12,000	450,000	463		
H	H-Pink-1	2	12,000	450,000	2.6		
H	H-YC2-3	2	12,000	450,000	60		
H	H-YC3-2	2	12,000	450,000	2.5		
H	H-SDA	2	12,000	450,000	1.5	3.01	
H	H01	1	26,550	27,415	13		
H	H01	1	26,550	27,415	25		Increased count time
H	H01 lc	1	26,550	27,415	24		Increased count time
H	H07	1	12,285	30,157	17	17.4	
H	H07S	1	12,285	30,157		25.8	
H	H13	1	26,803	40,742	91		
H	H52	2	12,000	15,000	8.9		
H	H66	2	12,000	15,000	6.2		
H	H75	2	14,505	18,205	9.2		
H	H85	2	12,843	21,166	5.5		
H	H85 S	2	12,843	21,166	5.5		
H	H97	2	14,103	227,495	7.0		
H	H107-117	2	11,433	15,913	3.0	6.03	
H	H126	2	13,197	28,253	8.9		
H	H137	2	11,902	25,846	13		
H	H158-168	2	10,496	104,110	1.4		
H	H170	2	11,780	64,937	15		
H	H187	2	11,543	68,907	2.4		
H	H190-199	2	15,483	64,796	1.8		
H	H214	2	11,650	55,000	18	39.9	
H	H214S	2	11,650	55,000	16		
H	H226	2	13,660	17,000	15		
H	H236	2	13,524	43,000	21	139	
H	H245	2	15,536	44,092	24		
H	H256	2	16,000	33,467		9.9	
H	H256S	2	16,000	33,467	3.6	9.3	
H	H268	2	11,380	50,886	24		
H	H278	2	12,024	19,700	3.9		
H	H284	2	17,621	91,843	6.4		
H	H301	2	15,330	310,000	5.8		
H	H304	2	15,330	310,000	400		
I	I117	1	10,709	25,981	2.4	5.27	
I	I137	1	10,124	27,212	8.4	17	
I	I142	1	10,130	13,125	1.1	1.76	
I	I11	1	10,709	63,420	79		
I	I12	1	10,709	63,420	80		
I	I16	1	10,709	63,420	36		

CSMRI Class I Soil Screening Data

Area	Sample ID	Type Code	Gamma Meter Readings (Range)		Radium (ISOCS)	Radium (Paragon)	Notes
			cpm	cpm	pCi/g	pCi/g	
I	I18	1	10,709	63,420	0.41		
I	I5	1	10,709	63,420	0.85		
I	Area I Bottom	3			19	34.6	
J	J01	1	10,155	15,431	25		
J	J04	1	10,155	15,431	15		
K	BK08	1	13,128	59,543	27		
K	Area K Bottom	3			17	43.4	
Pits	SDA06Y	3	32,606	537,798	689	1170	Reported as SDA064

Sample Type Codes

- 1 - Ex situ sample - excavation control using meter readings
- 2 - In situ sample - excavation control included meter readings and in situ samples
- 3 - In situ sample - soil still in place