

PRELIMINARY RESULTS !!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID:	BB04
Lab ID:	0404241-1

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 16-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 664 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040631D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15262-20-1	Ra-228	8.4 +/- 1.0	0.4	M3,G
14391-76-5	Ag-110m	0.013 +/- 0.057	0.101	U,G
14682-66-7	Al-26	0 +/- 0.056	0.099	U,G
14596-10-2	Am-241	-0.10 +/- 0.14	0.24	U,G
13966-02-4	Be-7	-0.37 +/- 0.58	1.01	U,G
14913-49-6	Bi-212	9.5 +/- 1.6	1.4	G
13982-63-3	Ra-226	8.8 +/- 1.0	0.2	G
14109-32-1	Cd-109	17.7 +/- 2.7	2.4	G,SI
13982-30-4	Ce-139	-0.006 +/- 0.063	0.105	U,G
14762-78-8	Ce-144	-0.25 +/- 0.39	0.65	U,G
14093-03-9	Co-56	1.28 +/- 0.31	0.34	G,TI
13981-50-5	Co-57	-0.005 +/- 0.047	0.079	U,G
13981-38-9	Co-58	0.003 +/- 0.061	0.105	U,G
10198-40-0	Co-60	0.001 +/- 0.061	0.106	U,G
14392-02-0	Cr-51	-3.0 +/- 7.1	12.0	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halfives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS !! Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0404241
Client Name: New Horizons
ClientProject ID: CSMRI 2135

Field ID:	BB04
Lab ID:	0404241-1

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 16-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 664 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040631D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
13967-70-9	Cs-134	0.141 +/- 0.051	0.103	G, TI
10045-97-3	Cs-137	-0.031 +/- 0.063	0.110	U, G
14683-23-9	Eu-152	1.50 +/- 0.65	0.86	G, TI
15585-10-1	Eu-154	0.16 +/- 0.32	0.53	U, G
14391-16-3	Eu-155	0.36 +/- 0.23	0.36	U, G
14596-12-4	Fe-59	0.09 +/- 0.13	0.21	U, G
10043-66-0	I-131	0.11 +/- 0.17	0.28	U, G
13966-00-2	K-40	9.2 +/- 1.5	0.9	G
13966-31-9	Mn-54	0.133 +/- 0.050	0.067	G, SI
13966-32-0	Na-22	-0.009 +/- 0.064	0.113	U, G
14681-63-1	Nb-94	0.015 +/- 0.065	0.109	U, G
13967-76-5	Nb-95	-0.07 +/- 0.11	0.19	U, G
15100-28-4	Pa-234m	7.6 +/- 9.4	15.4	U, G
15092-94-1	Pb-212	8.08 +/- 0.97	0.19	G
13967-48-1	Ru-106	-0.07 +/- 0.58	0.99	U, G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

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SQ - Spectral quality prevents accurate quantitation.
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R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY

RESULTS !!

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: BB04

Lab ID: 0404241-1

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 8

Date Collected: 16-Apr-04

Date Prepared: 27-Apr-04

Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2

QCBatchID: GS040427-2-1

Run ID: GS040427-2A

Count Time: 60 minutes

Report Basis: As Received

Final Aliquot: 664 g

Prep Basis: As Received

Moisture(%): NA

Result Units: pCi/g

File Name: 040631D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14683-10-4	Sb-124	0.001 +/- 0.070	0.119	U,G
14234-35-6	Sb-125	0.17 +/- 0.18	0.29	U,G
13967-63-0	Sc-46	-0.064 +/- 0.067	0.120	U,G
15623-47-9	Th-227	0.69 +/- 0.40	0.63	G
15065-10-8	Th-234	5.0 +/- 1.0	1.9	G
14913-50-9	Tl-208	2.63 +/- 0.33	0.11	G
15117-96-1	U-235	-0.08 +/- 0.39	0.65	U,G
13982-39-3	Zn-65	0.33 +/- 0.31	0.50	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

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SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

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R - Nuclide has exceeded 8 halfives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS !! Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics
Work Order Number: 0404241
Client Name: New Horizons
ClientProject ID: CSMRI 2135

Field ID:	BI17
Lab ID:	0404241-2

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 19-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 771 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040563D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15262-20-1	Ra-228	0.83 +/- 0.17	0.23	M3,G
14391-76-5	Ag-110m	0.006 +/- 0.026	0.045	U,G
14682-66-7	Al-26	0.003 +/- 0.028	0.054	U,G
14596-10-2	Am-241	0.042 +/- 0.063	0.104	U,G
13966-02-4	Be-7	-0.15 +/- 0.28	0.51	U,G
14913-49-6	Bi-212	1.02 +/- 0.55	0.80	G
13982-63-3	Ra-226	1.75 +/- 0.22	0.11	G
14109-32-1	Cd-109	3.45 +/- 0.90	1.19	G,SI
13982-30-4	Ce-139	-0.007 +/- 0.027	0.047	U,G
14762-78-8	Ce-144	-0.06 +/- 0.19	0.32	U,G
14093-03-9	Co-56	0.193 +/- 0.085	0.113	G,TI
13981-50-5	Co-57	-0.013 +/- 0.023	0.040	U,G
13981-38-9	Co-58	0.022 +/- 0.033	0.055	U,G
10198-40-0	Co-60	-0.030 +/- 0.037	0.073	U,G
14392-02-0	Cr-51	1.9 +/- 3.0	5.0	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
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Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS !!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID:	BI17
Lab ID:	0404241-2

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 19-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 771 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040563D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
13967-70-9	Cs-134	-0.006 +/- 0.030	0.053	U,G
10045-97-3	Cs-137	0.010 +/- 0.036	0.061	U,G
14683-23-9	Eu-152	0.16 +/- 0.17	0.26	U,G
15585-10-1	Eu-154	-0.02 +/- 0.21	0.37	U,G
14391-16-3	Eu-155	0.017 +/- 0.081	0.138	U,G
14596-12-4	Fe-59	-0.006 +/- 0.075	0.137	U,G
10043-66-0	I-131	-0.033 +/- 0.068	0.122	U,G
13966-00-2	K-40	12.5 +/- 1.9	0.7	G
13966-31-9	Mn-54	-0.007 +/- 0.032	0.059	U,G
13966-32-0	Na-22	0 +/- 0.038	0.068	U,G
14681-63-1	Nb-94	-0.001 +/- 0.032	0.057	U,G
13967-76-5	Nb-95	-0.061 +/- 0.056	0.107	U,G
15100-28-4	Pa-234m	0.6 +/- 6.3	11.1	U,G
15092-94-1	Pb-212	0.85 +/- 0.13	0.09	G
13967-48-1	Ru-106	-0.05 +/- 0.28	0.51	U,G

Comments:

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Data Package ID: GSS0404241-1

PRELIMINARY RESULTS !!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: B117
Lab ID: 0404241-2

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 19-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 771 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040563D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14683-10-4	Sb-124	-0.010 +/- 0.033	0.059	U,G
14234-35-6	Sb-125	0.084 +/- 0.074	0.126	U,G
13967-63-0	Sc-46	-0.006 +/- 0.034	0.062	U,G
15623-47-9	Th-227	-0.9 +/- 4.6	7.5	U,G
15065-10-8	Th-234	1.16 +/- 0.42	0.71	G
14913-50-9	Tl-208	0.315 +/- 0.064	0.055	G
15117-96-1	U-235	0.05 +/- 0.20	0.33	U,G
13982-39-3	Zn-65	0.03 +/- 0.18	0.31	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

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Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!!

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: BI37
Lab ID: 0404241-4

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 19-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 706 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040632D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15262-20-1	Ra-228	1.53 +/- 0.25	0.28	M3,G
14391-76-5	Ag-110m	-0.015 +/- 0.035	0.066	U,G
14682-66-7	Al-26	0.037 +/- 0.037	0.057	U,G
14596-10-2	Am-241	0.066 +/- 0.087	0.143	U,G
13966-02-4	Be-7	-0.07 +/- 0.34	0.60	U,G
14913-49-6	Bi-212	1.26 +/- 0.72	1.09	G
13982-63-3	Ra-226	5.91 +/- 0.71	0.13	G
14109-32-1	Cd-109	8.0 +/- 1.4	1.5	G,SI
13982-30-4	Ce-139	0.027 +/- 0.040	0.065	U,G
14762-78-8	Ce-144	-0.11 +/- 0.23	0.39	U,G
14093-03-9	Co-56	0.93 +/- 0.23	0.23	G,TI
13981-50-5	Co-57	0.013 +/- 0.030	0.049	U,G
13981-38-9	Co-58	0.011 +/- 0.039	0.067	U,G
10198-40-0	Co-60	-0.026 +/- 0.042	0.079	U,G
14392-02-0	Cr-51	-1.3 +/- 3.9	6.8	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
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Y2 - Chemical Yield outside default limits.
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Data Package ID: GSS0404241-1

PRELIMINARY

RESULTS !!

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: BI37

Lab ID: 0404241-4

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 8

Date Collected: 19-Apr-04

Date Prepared: 27-Apr-04

Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2

QCBatchID: GS040427-2-1

Run ID: GS040427-2A

Count Time: 60 minutes

Report Basis: As Received

Final Aliquot: 706 g

Prep Basis: As Received

Moisture(%): NA

Result Units: pCi/g

File Name: 040632D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
13967-70-9	Cs-134	0.012 +/- 0.035	0.060	U,G
10045-97-3	Cs-137	0.037 +/- 0.040	0.065	U,G
14683-23-9	Eu-152	0.48 +/- 0.26	0.38	G,TI
15585-10-1	Eu-154	-0.15 +/- 0.23	0.42	U,G
14391-16-3	Eu-155	0.01 +/- 0.11	0.19	U,G
14596-12-4	Fe-59	0.041 +/- 0.091	0.155	U,G
10043-66-0	I-131	0.007 +/- 0.082	0.141	U,G
13966-00-2	K-40	11.1 +/- 1.7	0.8	G
13966-31-9	Mn-54	-0.013 +/- 0.044	0.078	U,G
13966-32-0	Na-22	0.002 +/- 0.049	0.086	U,G
14681-63-1	Nb-94	0.031 +/- 0.043	0.070	U,G
13967-76-5	Nb-95	-0.046 +/- 0.067	0.121	U,G
15100-28-4	Pa-234m	8.4 +/- 7.0	10.9	U,G
15092-94-1	Pb-212	1.29 +/- 0.19	0.12	G
13967-48-1	Ru-106	0.14 +/- 0.36	0.60	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

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Abbreviations:

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MDC - Minimum Detectable Concentration (see PAI SOP 709)

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SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!! Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID:	BI37
Lab ID:	0404241-4

Sample Matrix: SOIL
 Prep SOP: PAI 739 Rev 8
 Date Collected: 19-Apr-04
 Date Prepared: 27-Apr-04
 Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
 QCBatchID: GS040427-2-1
 Run ID: GS040427-2A
 Count Time: 60 minutes
 Report Basis: As Received

Final Aliquot: 706 g
 Prep Basis: As Received
 Moisture(%): NA
 Result Units: pCi/g
 File Name: 040632D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14683-10-4	Sb-124	0.010 +/- 0.039	0.067	U,G
14234-35-6	Sb-125	0.09 +/- 0.11	0.20	U,G
13967-63-0	Sc-46	-0.047 +/- 0.046	0.086	U,G
15623-47-9	Th-227	0.28 +/- 0.26	0.42	U,G
15065-10-8	Th-234	1.99 +/- 0.51	0.74	G
14913-50-9	Tl-208	0.402 +/- 0.076	0.072	G
15117-96-1	U-235	0.20 +/- 0.28	0.46	U,G
13982-39-3	Zn-65	-0.033 +/- 0.087	0.157	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
 Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
 Y2 - Chemical Yield outside default limits.
 LT - Result is less than Requested MDC, greater than sample specific MDC.
 M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
 M - The requested MDC was not met.

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Abbreviations:

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 MDC - Minimum Detectable Concentration (see PAI SOP 709)
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Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!!

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: BI42
Lab ID: 0404241-6

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 19-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 687 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040565D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15262-20-1	Ra-228	1.17 +/- 0.21	0.23	M3,G
14391-76-5	Ag-110m	0.002 +/- 0.030	0.054	U,G
14682-66-7	Al-26	0.027 +/- 0.028	0.043	U,G
14596-10-2	Am-241	-0.003 +/- 0.062	0.107	U,G
13966-02-4	Be-7	0.27 +/- 0.26	0.42	U,G
14913-49-6	Bi-212	1.13 +/- 0.55	0.74	G
13982-63-3	Ra-226	0.582 +/- 0.094	0.114	G
14109-32-1	Cd-109	2.63 +/- 0.74	0.97	G,SI
13982-30-4	Ce-139	-0.009 +/- 0.026	0.046	U,G
14762-78-8	Ce-144	-0.03 +/- 0.18	0.31	U,G
14093-03-9	Co-56	0.059 +/- 0.083	0.136	U,G
13981-50-5	Co-57	-0.015 +/- 0.022	0.038	U,G
13981-38-9	Co-58	-0.017 +/- 0.032	0.061	U,G
10198-40-0	Co-60	0.014 +/- 0.033	0.058	U,G
14392-02-0	Cr-51	-1.1 +/- 3.0	5.3	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halfives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: BI42
Lab ID: 0404241-6

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 19-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 687 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040565D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
13967-70-9	Cs-134	0.023 +/- 0.023	0.051	U,G
10045-97-3	Cs-137	-0.029 +/- 0.037	0.070	U,G
14683-23-9	Eu-152	-0.01 +/- 0.16	0.30	U,G
15585-10-1	Eu-154	0.02 +/- 0.17	0.30	U,G
14391-16-3	Eu-155	0.047 +/- 0.081	0.134	U,G
14596-12-4	Fe-59	0.044 +/- 0.083	0.141	U,G
10043-66-0	I-131	-0.066 +/- 0.075	0.137	U,G
13966-00-2	K-40	13.1 +/- 2.0	0.7	G
13966-31-9	Mn-54	-0.008 +/- 0.029	0.055	U,G
13966-32-0	Na-22	-0.011 +/- 0.037	0.071	U,G
14681-63-1	Nb-94	-0.023 +/- 0.036	0.067	U,G
13967-76-5	Nb-95	-0.032 +/- 0.040	0.075	U,G
15100-28-4	Pa-234m	-1.5 +/- 5.3	10.0	U,G
15092-94-1	Pb-212	1.35 +/- 0.19	0.09	G
13967-48-1	Ru-106	0.10 +/- 0.31	0.54	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: B142
Lab ID: 0404241-6

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 19-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 687 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040565D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14683-10-4	Sb-124	0.002 +/- 0.034	0.060	U,G
14234-35-6	Sb-125	0.064 +/- 0.071	0.127	U,G
13967-63-0	Sc-46	0 +/- 0.035	0.063	U,G
15623-47-9	Th-227	0.2 +/- 4.5	7.3	U,G
15065-10-8	Th-234	1.23 +/- 0.44	0.92	G
14913-50-9	Tl-208	0.422 +/- 0.077	0.060	G
15117-96-1	U-235	0.06 +/- 0.18	0.31	U,G
13982-39-3	Zn-65	-0.02 +/- 0.16	0.27	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

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SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: H07
Lab ID: 0404241-8

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 22-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 656 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040564D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15262-20-1	Ra-228	0.64 +/- 0.21	0.44	M3,G
14391-76-5	Ag-110m	0.018 +/- 0.053	0.094	U,G
14682-66-7	Al-26	-0.047 +/- 0.056	0.112	U,G
14596-10-2	Am-241	0.31 +/- 0.16	0.24	G,TI
13966-02-4	Be-7	-0.48 +/- 0.54	0.95	U,G
14913-49-6	Bi-212	0.67 +/- 0.55	0.85	U,G
13982-63-3	Ra-226	13.5 +/- 1.6	0.2	G
14109-32-1	Cd-109	12.1 +/- 2.4	2.9	G,SI
13982-30-4	Ce-139	-0.03 +/- 0.12	0.20	U,G
14762-78-8	Ce-144	-0.11 +/- 0.42	0.71	U,G
14093-03-9	Co-56	0.92 +/- 0.34	0.45	G,TI
13981-50-5	Co-57	0.023 +/- 0.052	0.087	U,G
13981-38-9	Co-58	0.011 +/- 0.064	0.110	U,G
10198-40-0	Co-60	0.009 +/- 0.071	0.124	U,G
14392-02-0	Cr-51	-2.7 +/- 6.0	10.2	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halfives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

Data Package ID: GSS0404241-1

PRELIMINARY

RESULTS !! Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: H07
Lab ID: 0404241-8

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 22-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 656 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040564D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
13967-70-9	Cs-134	0 +/- 0.057	0.098	U,G
10045-97-3	Cs-137	0 +/- 0.10	0.17	U,G
14683-23-9	Eu-152	0.22 +/- 0.72	1.19	U,G
15585-10-1	Eu-154	0.03 +/- 0.48	0.82	U,G
14391-16-3	Eu-155	0.11 +/- 0.19	0.31	U,G
14596-12-4	Fe-59	-0.03 +/- 0.15	0.26	U,G
10043-66-0	I-131	0.05 +/- 0.11	0.19	U,G
13966-00-2	K-40	9.9 +/- 1.7	1.2	G
13966-31-9	Mn-54	-0.041 +/- 0.096	0.169	U,G
13966-32-0	Na-22	0.020 +/- 0.072	0.124	U,G
14681-63-1	Nb-94	0.037 +/- 0.038	0.061	U,G
13967-76-5	Nb-95	-0.26 +/- 0.13	0.24	U,G
15100-28-4	Pa-234m	35 +/- 13	18	G
15092-94-1	Pb-212	0.73 +/- 0.15	0.19	G
13967-48-1	Ru-106	0.28 +/- 0.49	0.85	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halfives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!!

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: H07
Lab ID: 0404241-8

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 22-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 656 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040564D07A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14683-10-4	Sb-124	0.010 +/- 0.061	0.104	U,G
14234-35-6	Sb-125	0.14 +/- 0.12	0.20	U,G
13967-63-0	Sc-46	-0.067 +/- 0.068	0.124	U,G
15623-47-9	Th-227	0.71 +/- 0.45	0.71	G
15065-10-8	Th-234	26.9 +/- 3.3	1.7	G
14913-50-9	Tl-208	0.198 +/- 0.066	0.086	G
15117-96-1	U-235	1.47 +/- 0.38	0.64	G
13982-39-3	Zn-65	-0.08 +/- 0.41	0.70	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS !!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: H07S
Lab ID: 0404241-10

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 22-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 626 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040633D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
15262-20-1	Ra-228	0.65 +/- 0.19	0.35	M3,G
14391-76-5	Ag-110m	0 +/- 0.045	0.081	U,G
14682-66-7	Al-26	-0.028 +/- 0.042	0.084	U,G
14596-10-2	Am-241	0.09 +/- 0.14	0.24	U,G
13966-02-4	Be-7	0.13 +/- 0.45	0.75	U,G
14913-49-6	Bi-212	0.68 +/- 0.71	1.14	U,G
13982-63-3	Ra-226	11.7 +/- 1.4	0.2	G
14109-32-1	Cd-109	5.1 +/- 1.5	2.2	G,SI
13982-30-4	Ce-139	-0.051 +/- 0.081	0.136	U,G
14762-78-8	Ce-144	-0.04 +/- 0.32	0.53	U,G
14093-03-9	Co-56	1.58 +/- 0.34	0.33	G,TI
13981-50-5	Co-57	0.039 +/- 0.041	0.067	U,G
13981-38-9	Co-58	0.027 +/- 0.076	0.126	U,G
10198-40-0	Co-60	-0.045 +/- 0.061	0.112	U,G
14392-02-0	Cr-51	-2.1 +/- 5.1	8.8	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halfives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS !!

Gamma Spectroscopy Results

PAI 713 Rev 8
Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: H07S
Lab ID: 0404241-10

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 8
Date Collected: 22-Apr-04
Date Prepared: 27-Apr-04
Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2
QCBatchID: GS040427-2-1
Run ID: GS040427-2A
Count Time: 60 minutes
Report Basis: As Received

Final Aliquot: 626 g
Prep Basis: As Received
Moisture(%): NA
Result Units: pCi/g
File Name: 040633D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
13967-70-9	Cs-134	-0.013 +/- 0.054	0.093	U,G
10045-97-3	Cs-137	0.011 +/- 0.049	0.084	U,G
14683-23-9	Eu-152	1.51 +/- 0.66	0.88	G,TI
15585-10-1	Eu-154	-0.56 +/- 0.51	0.94	U,G
14391-16-3	Eu-155	0.04 +/- 0.16	0.26	U,G
14596-12-4	Fe-59	-0.04 +/- 0.11	0.20	U,G
10043-66-0	I-131	0.045 +/- 0.086	0.142	U,G
13966-00-2	K-40	9.9 +/- 1.6	0.9	G
13966-31-9	Mn-54	-0.084 +/- 0.086	0.155	U,G
13966-32-0	Na-22	-0.011 +/- 0.061	0.108	U,G
14681-63-1	Nb-94	0.071 +/- 0.054	0.085	U,G
13967-76-5	Nb-95	-0.29 +/- 0.10	0.19	U,G
15100-28-4	Pa-234m	50 +/- 13	14	G
15092-94-1	Pb-212	0.75 +/- 0.14	0.16	G
13967-48-1	Ru-106	0.14 +/- 0.45	0.76	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1

PRELIMINARY RESULTS!!

Gamma Spectroscopy Results

PAI 713 Rev 8

Sample Results

Lab Name: Paragon Analytics

Work Order Number: 0404241

Client Name: New Horizons

ClientProject ID: CSMRI 2135

Field ID: H07S

Lab ID: 0404241-10

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 8

Date Collected: 22-Apr-04

Date Prepared: 27-Apr-04

Date Analyzed: 29-Apr-04

Prep Batch: GS040427-2

QCBatchID: GS040427-2-1

Run ID: GS040427-2A

Count Time: 60 minutes

Report Basis: As Received

Final Aliquot: 626 g

Prep Basis: As Received

Moisture(%): NA

Result Units: pCi/g

File Name: 040633D08A

Library: FANP_NEW-HO

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Lab Qualifier
14683-10-4	Sb-124	-0.011 +/- 0.058	0.099	U,G
14234-35-6	Sb-125	0.20 +/- 0.15	0.25	U,G
13967-63-0	Sc-46	-0.021 +/- 0.063	0.110	U,G
15623-47-9	Th-227	0.81 +/- 0.35	0.53	G
15065-10-8	Th-234	29.7 +/- 3.6	1.6	G
14913-50-9	Tl-208	0.220 +/- 0.065	0.083	G
15117-96-1	U-235	1.99 +/- 0.39	0.54	G
13982-39-3	Zn-65	0.04 +/- 0.34	0.56	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)

MDC - Minimum Detectable Concentration (see PAI SOP 709)

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halfives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS0404241-1