
TECHNICAL MEMORANDUM
PHASE I SEDIMENT SAMPLE RESULTS
SANTA SUSANA FIELD LABORATORY SITE
AREA IV RADIOLOGICAL STUDY

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SUBJECT: Phase I Radiological Sediment Sampling Report
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TASK ORDER NO: 0038

INTRODUCTION

HydroGeoLogic, Inc. (HGL) is conducting a comprehensive radiological characterization study of Area IV and the Northern Buffer Zone (NBZ) at the Santa Susana Field Laboratory (SSFL) site in Ventura County, California. This work is being executed under U.S. Environmental Protection Agency (USEPA) Region 7 Architect and Engineering Services Contract EP-S7-05-05, Task Order 0038. The technical lead on the project is USEPA Region 9.

As part of the radiological study, sediment samples were collected from locations within drainages that originate in Area IV. This Technical Memorandum documents the sediment sampling activities, analytical results, and findings of the Phase I Sediment Sampling. The primary objective of the sediment sampling effort is to evaluate the nature of potential radionuclide contamination in sediment that may have resulted from past nuclear research activities. This objective was achieved through the collection and analysis of sediment samples within Area IV and the NBZ.

The overall approach for the sediment sampling program was to identify drainages that originated in, and exited from, Area IV, identify sediment sampling locations through site reconnaissance, prepare a Field Sampling Plan (FSP) Addendum for the Phase I Sampling, and then present the FSP Addendum and review and finalize proposed locations with USEPA's SSFL Technical Stakeholder workgroup.

SEDIMENT SAMPLING ACTIVITIES

Sediment Sample Location Placement

A field reconnaissance, to determine the optimal location for collecting sediment samples, was conducted from October 6, 2010 to November 5, 2010. A total of 40 sediment sampling locations were identified during the reconnaissance. Detailed notes and photographs were taken at each location, as well as, X-Y survey coordinates which were recorded using a SPS 852 handheld Trimble Global Positioning System unit. The 40 proposed sample locations were documented in the Surface Water and Sediment Addendum to the Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment (HGL, 2010b). Table 1 provides a summary of the sediment sample locations. Figure 1 illustrates the sediment sampling locations.

Sample Collection

Sampling collection activities commenced in mid December 2010 after the Site Historic Preservation Office approval letter for the NBZ was received on December 1, 2010.

Sediment samples were collected using a stainless steel trowel and bowl, in accordance with the Final Phase I FSP for Groundwater, Surface Water, and Sediment (HGL, 2010a). A total of 39 sediment samples were collected within Area IV and the NBZ from December 13, 2010 to January 13, 2011. On May 23, 2011, one sediment sample was collected from the bottom of the Building 56 Excavation, also known as the Million Dollar Hole.

Deviations from the FSP and FSP Addendum

There were no deviations from the Final Phase I FSP (HGL, 2010a) or the FSP Addendum (HGL, 2010b).

Sediment Description Summary

A total of 39 sediment samples were collected from drainage channels within Area IV and the NBZ and one sediment sample was collected from the Building 56 Excavation. Sediment samples were classified and described in accordance with Description and Identification of Soils (Visual Manual Procedures ASTM D-2488). Sediment mainly consisted of a silty sand, however, other sediment types observed included sandy silt, sandy silt with clay, sand with silt, and poor to well graded sand. The descriptions recorded during the Phase I sampling event are summarized in Table 2. Sediment descriptions by sample location are shown on Table A.1.

EVALUATION OF SEDIMENT SAMPLE RESULTS

Analyses of sediment samples were conducted in accordance with the Quality Assurance Project Plan (QAPP) for Groundwater, Surface Water, and Sediment (HGL, 2010c). All sediment samples were tested for the carbon-14 (C-14), tritium (H-3), technetium-99 (Tc-99), and the default suite of radionuclides presented in Table 3.1 of the Phase I FSP (HGL, 2010a).

Radiological Trigger Levels

Analytical results were compared to the radiological trigger levels (RTL) established specifically for the Area IV Santa Susana Field Laboratory Radiological Study. RTLs are reference soil concentrations for the radionuclides of concern for the Radiological Study. Analytical results below each RTL are considered uncontaminated or non-actionable, and results that exceed RTL are actionable and may represent contamination. The process used to derive the RTLs is presented in the Technical Memorandum, Radiological Trigger Levels (HGL, 2011).

Analytical Results

Two samples of the 40 sediment samples collected during the Phase I sediment sampling event contained radionuclide concentrations that exceeded the RTLs.

The sediment sample collected from location EPASED 13 contained thorium-234 (Th-234) at a concentration of 3.45 picocuries per gram (pCi/g) that exceeded the RTL of 3.19 pCi/g, uranium-233 (U-233)/U-234 at a concentration of 2.47 pCi/g that exceeded the RTL of 2.02 pCi/g, and U-238 at a concentration of 2.3 pCi/g that exceeded the RTL of 1.80 pCi/g.

The sample collected from location EPASED 17 contained cesium-137 (Cs-137) at a concentration of 0.208 pCi/g which exceeded the RTL of 0.207 pCi/g.

Table 2 presents the sample location, sample depth, radionuclide concentration, associated lines of evidence, and technical justification for collecting additional soil samples. Figure 1 presents the sample locations of all the sediment samples collected during Phase I. Figure 2 presents the location, radionuclide, and concentration detected above the RTLs in samples collected from locations EPASED-13 and EPASED-17. A summary of the analytical results is provided in Table A.2.

QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Field Duplicates

Field duplicate sediment samples were collected at a frequency of 1 per 20 samples (5 percent). A total of two field duplicate sediment samples were collected during the sampling event. Field duplicate evaluation criterion includes an additional 1σ uncertainty factor of 10 percent to allow for heterogeneity of co-located, but non-homogenized, field samples. Sample results that are rejected for laboratory quality reasons are not included in this assessment. The original results for the Phase I sediment samples included several analytes which were removed from consideration, and thus were not evaluated. A duplicate Z-score comparison (Z_{DUP}), as defined in the QAPP (HGL, 2010c), is performed on each paired set of analytes for which parent and duplicate data are reported.

Phase I field duplicate sediment sample data includes 202 results from 101 sample/duplicate pairs. Of those, any results that were rejected by data validation were removed from consideration. In addition, analytes that are simply inferred from previously reported results,

such as barium-137m (Ba-137m), which is inferred from the reported Cs-137 results, are considered redundant and have been removed from consideration, as well.

The Z_{DUP} evaluation of the remaining 82 qualified pairs follows:

- 74 results (90.2 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- 6 results (7.3 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- 2 results (2.4 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

The Z_{DUP} statistical test predicts that, in a homogeneous sample/duplicate pairing, approximately 4 percent of reported Z_{DUP} scores will be in the range between 1.96 and 2.58. Of 74 Z_{DUP} results, approximately 3 percent are expected to fall in this “warning” range. For this data set, six Z_{DUP} results are in the warning range, suggesting a slightly increased degree of heterogeneity in the co-located field samples than has otherwise been estimated. Nonetheless, a review of the associated field sample and duplicate results does not indicate significant concerns regarding the quality or usability of the data.

The two Z_{DUP} results that exceeded 2.58 are; lead-214 (Pb-214) at 3.25, and bismuth-214 (Bi-214) at 2.84. These results are from the same sample/duplicate data pair and represent a single parent/daughter pair in the naturally occurring uranium decay chain. The small excursion supports the assertion of an increased degree of heterogeneity in the co-located field samples, discussed above. As with the slight increase of results in the “warning” range, these results do not appear to indicate significant concerns regarding the quality or usability of the analytical data. A summary of the parent and associated duplicate sample results is provided Table A.3.

Equipment Rinsate and Source Water Blanks

Equipment rinsate blanks were collected at a frequency of one per day, for each type of sampling equipment used per field team. Equipment rinsate blanks were collected in accordance with the Final Phase I FSP (HGL, 2010a) and the QAPP (HGL, 2010c). A total of 10 rinsate and 10 source water samples were collected during the Phase I sediment sampling event. Each sample was tested for isotopic U, as a surrogate indicator of cross-contamination. The laboratory’s reported results for Th-231 are inferred directly from the reported U-235 results. Those redundant evaluations, as well as any results that are rejected for laboratory quality reasons, have been removed from consideration, as in the evaluation of field duplicate samples, above. Rinsate and source water samples were also analyzed for H-3 if it was included in the analytical suite for samples collected that day.

Phase I sediment equipment rinsate and source water sample data contains 79 total results, which include 39 data pairs evaluated by Z-score duplicate comparison. The ratio of the rinsate water activity to the source water activity is summarized below. The summary also

includes a single rinsate sample with no measurable activity, for which the accompanying source water result is rejected due to incomplete analytical results at the time of this report. While corrected results are expected from the laboratory, those results are not believed to be relevant to this evaluation because the corresponding rinsate water is shown to be free of contaminants, which supports the successful decontamination of the associated field sampling equipment.

- 37 results (92.5 percent) were within the expected 95 percent confidence interval for this evaluation, with Z_{DUP} less than 1.96;
- Two results (5.0 percent) were between the 95 percent and 99 percent confidence interval with Z_{DUP} at or above 1.96, but below 2.58;
- One result (2.5 percent) exceeded the 99 percent confidence interval, with Z_{DUP} values at or above 2.58.

As with the field duplicates, the Z_{DUP} statistical test predicts that approximately 4 percent of reported Z_{DUP} scores will be in the range between 1.96 and 2.58. Given the small number of results being considered, the two results in that “warning” range is consistent with the expected rate. In addition;

- One Z_{DUP} result in the warning range resulted from reported activity in the source water sample, but no measurable activity in the corresponding rinsate sample. The rinsate water, therefore, is demonstrated to be free of measurable contaminants and the associated field samples are not believed to be subject to sample cross-contamination from the field sampling equipment.
- The second Z_{DUP} result in the warning range is related to a very small amount of activity reported for U-235 in the rinsate sample, but with no corresponding U-234 and U-238 activity, either one or both of which would be expected to be present in much higher concentrations if U-235 were present. The Z_{DUP} result is believed to be a routine statistical excursion, expected in the evaluation, with no indication of any cross-contamination from the field sampling equipment in the associated field samples.

The single Z_{DUP} result that exceeded 2.58, at 2.60, is related to small, but measurable amounts of U-238 activity in the rinsate water sample SED-R-008. The exceedance is marginal and is unsupported by the presence of other uranium isotopes, as expected. Nonetheless, the field sample results associated with this equipment rinsate sample have been reviewed and none exceed the corresponding RTLs for the analyzed radionuclides. It is therefore not possible that any potential sample cross-contamination has resulted in a “false positive” exceedance of the RTLs in any subsequent sample. The observed Z_{DUP} exceedance is not believed to be significant, and is not believed to indicate evidence of sample cross-contamination to a degree that would adversely affect the quality or usability of the data for its intended purpose.

The overall evaluation of equipment blank results indicates that the decontamination of the field sampling equipment is acceptable and that there is no evidence of sample cross-contamination

from the sampling equipment that would adversely affect the quality or usability of the reported field sample data. A summary of the rinsate and source water blank analytical results are provided in Table A.4.

SUMMARY OF FINDINGS

Radionuclide concentrations exceeding RTLs were reported in samples collected at sample locations EPASED-13 and EPASED-17. Additional soil samples will be collected in the vicinity of sample locations EPASED-13 and EPASED-17 during Phase II sediment sampling activities. A Phase II FSP Addendum will be prepared describing the proposed “step-out” sediment sampling locations, analytical testing, and technical justification for the addition sampling.

REFERENCES

HydroGeoLogic, Inc, 2011a. Technical Memorandum, Radiological Trigger Levels, Santa Susana Field Laboratory Site, Area IV Radiological Study. December.

HydroGeoLogic, Inc., 2010a. Final Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment, Area IV Radiological Study, Santa Susana Field Laboratory Ventura County, California. July 28, 2010.

HydroGeoLogic, Inc., 2010b. Surface Water and Sediment Addendum to the Phase I Field Sampling Plan for Groundwater, Surface Water, and Sediment, Area IV Radiological Study, Santa Susana Field Laboratory Ventura County, California. December 10, 2010.

HydroGeoLogic, Inc., 2010c. Quality Assurance Project Plan for Groundwater, Surface Water, and Sediment, Area IV Radiological Study, Santa Susana Field Laboratory Ventura County, California. August 11, 2010.

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Summary of Planned and Completed Sampling Locations
Phase I Sediment Sampling

Proposed Samples	Samples Collected	Date Collected	Analytes Analyzed
EPASED01	EPASED01	12/17/2010	SSFL Default, H-3, Tc-99, C-14
EPASED02	EPASED02	12/21/2010	SSFL Default, H-3, Tc-99, C-14
EPASED03	EPASED03	12/20/2010	SSFL Default, H-3, Tc-99, C-14
EPASED04	EPASED04	12/17/2010	SSFL Default, H-3, Tc-99, C-14
EPASED05	EPASED05	12/20/2010	SSFL Default, H-3, Tc-99, C-14
EPASED06	EPASED06	12/17/2010	SSFL Default, H-3, Tc-99, C-14
EPASED07	EPASED07	12/20/2010	SSFL Default, H-3, Tc-99, C-14
EPASED08	EPASED08	12/20/2010	SSFL Default, H-3, Tc-99, C-14
EPASED09	EPASED09	1/13/2011	SSFL Default, H-3, Tc-99, C-14
EPASED10	EPASED10	12/22/2010	SSFL Default, H-3, Tc-99, C-14
EPASED11	EPASED11	12/16/2010	SSFL Default, H-3, Tc-99, C-14
EPASED12	EPASED12	12/17/2010	SSFL Default, H-3, Tc-99, C-14
EPASED13	EPASED13	12/16/2010	SSFL Default, H-3, Tc-99, C-14
EPASED14	EPASED14	12/17/2010	SSFL Default, H-3, Tc-99, C-14
EPASED15	EPASED15	12/21/2010	SSFL Default, H-3, Tc-99, C-14
EPASED16	EPASED16	12/15/2010	SSFL Default, H-3, Tc-99, C-14
EPASED17	EPASED17	12/16/2010	SSFL Default, H-3, Tc-99, C-14
EPASED18	EPASED18	12/15/2010	SSFL Default, H-3, Tc-99, C-14
EPASED19	EPASED19	12/16/2010	SSFL Default, H-3, Tc-99, C-14
EPASED20	EPASED20	12/16/2010	SSFL Default, H-3, Tc-99, C-14
EPASED21	EPASED21	12/15/2010	SSFL Default, H-3, Tc-99, C-14
EPASED22	EPASED22	12/14/2010	SSFL Default, H-3, Tc-99, C-14
EPASED23	EPASED23	12/14/2010	SSFL Default, H-3, Tc-99, C-14
EPASED24	EPASED24	12/14/2010	SSFL Default, H-3, Tc-99, C-14
EPASED25	EPASED25	12/14/2010	SSFL Default, H-3, Tc-99, C-14
EPASED26	EPASED26	12/14/2010	SSFL Default, H-3, Tc-99, C-14
EPASED27	EPASED27	12/14/2010	SSFL Default, H-3, Tc-99, C-14
EPASED28	EPASED28	1/13/2011	SSFL Default, H-3, Tc-99, C-14
EPASED29	EPASED29	12/13/2010	SSFL Default, H-3, Tc-99, C-14

Table 1
Summary of Planned and Completed Sampling Locations
Phase I Sediment Sampling

Proposed Samples	Samples Collected	Date Collected	Analytes Analyzed
EPASED30	EPASED30	12/13/2010	SSFL Default, H-3, Tc-99, C-14
EPASED31	EPASED31	12/13/2010	SSFL Default, H-3, Tc-99, C-14
EPASED32	EPASED32	12/13/2010	SSFL Default, H-3, Tc-99, C-14
EPASED33	EPASED33	12/13/2010	SSFL Default, H-3, Tc-99, C-14
EPASED34	EPASED34	12/20/2010	SSFL Default, H-3, Tc-99, C-14
EPASED35	EPASED35	5/23/2011	SSFL Default, H-3, Tc-99, C-14
EPASED36	EPASED36	12/21/2010	SSFL Default, H-3, Tc-99, C-14
EPASED37	EPASED37	12/20/2010	SSFL Default, H-3, Tc-99, C-14
EPASED38	EPASED38	12/21/2010	SSFL Default, H-3, Tc-99, C-14
EPASED39	EPASED39	12/21/2010	SSFL Default, H-3, Tc-99, C-14
EPASED40	EPASED40	12/13/2010	SSFL Default, H-3, Tc-99, C-14

Note:

¹ Default suite includes the radionuclide analysis shown in Table 3.1 of the Field Sampling Plan for Groundwater, Surface Water and Sediment (HGL, 2010a).

C-14 - carbon 14

H-3 - tritium (hydrogen 3)

SSFL - Santa Susana Field Laboratory

Tc-99 - technetium-99

Table 2
Analytical Results Exceeding Radiological Trigger Levels
Phase I Sediment Sampling

Sample Location	Sample Depth (feet)	Radionuclide Detected	Activity	RTL	Associated Line Of Evidence	Step-out Justification
EPASED-13	0.0 - 0.5	Th-230	3.45	3.19	Approximately 350 feet downgradient from Outfall 3. This location is also northwest and downgradient of the RMHF.	Elevated concentrations of Th-230, U-233/U-234, and U-238. Characterize the sediment upgradient and downgradient of the location where elevated levels of radionuclides were reported in Phase I sediment samples.
		U-233/U-234	2.47	2.02		
		U-238	2.3	1.80		
EPASED-17	0.0 - 0.5	Cs-137	0.208	0.207	Approximately 200 feet downgradient from the SRE Pond.	Elevated concentrations of Cs-137. Characterize the sediment upgradient and downgradient of the location where an elevated concentration of Cs-137 was reported in Phase I sediment samples.

Notes:

All units measured in picocuries per gram.

Cs - cesium

RMHF - Radioactive Materials Handling Facility

RTL - radiological trigger level

SRE - Sodium Reactor Experiment

Th - thorium

U-uranium

FIGURES

Figure 1
Radiological Sediment Sampling Locations
Phase I Sediment Sampling
Santa Susana Field Laboratory

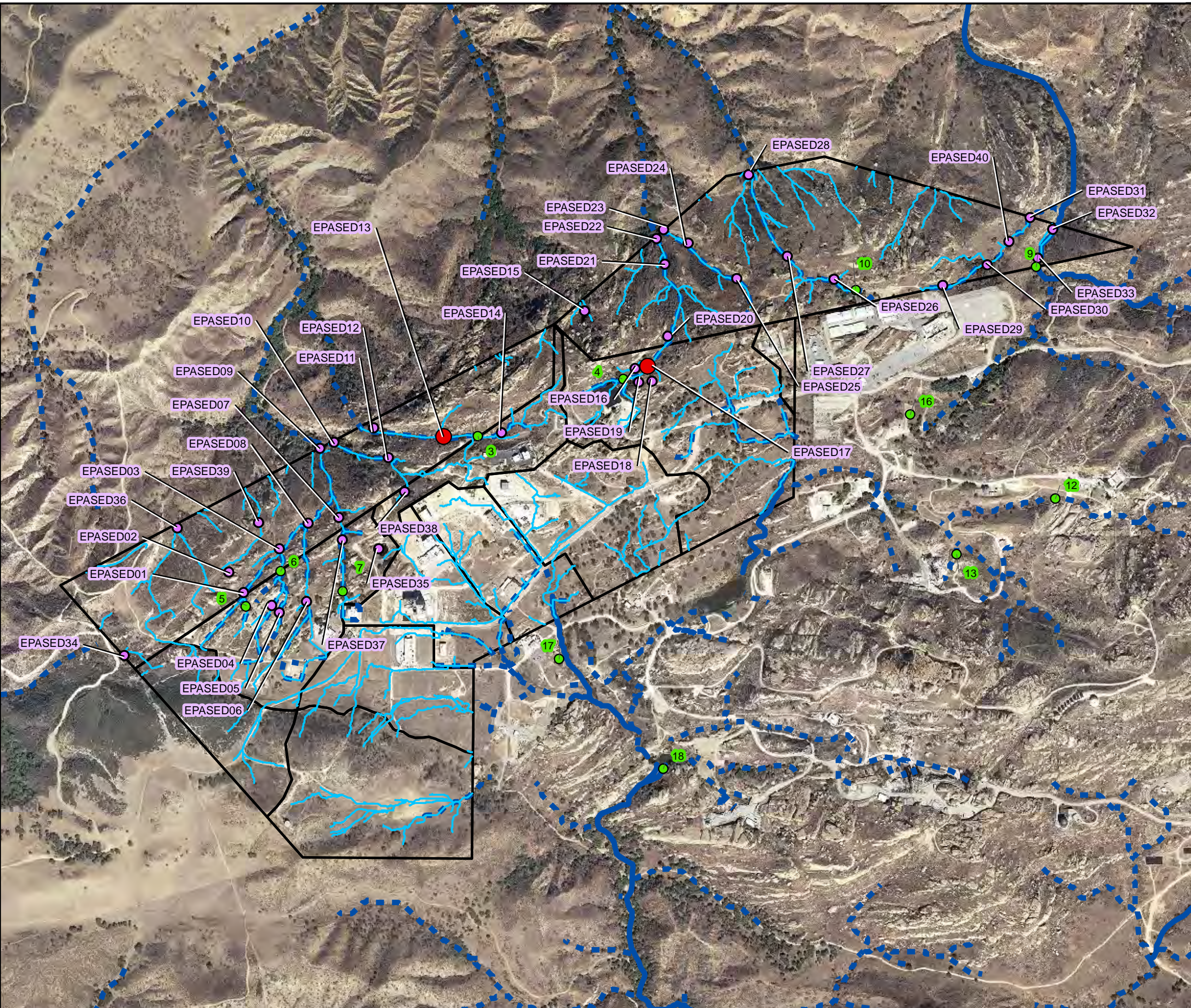
U.S. EPA Region 9



Legend

- NPDES Outfall Locations
- Sediment Sample Location Results Below RTLs
- Sediment Sample Locations Exceeding RTLs
- Drainage Pathways
- - - Intermittent Stream
- Permanent Stream
- Subareas
- EPASED40 Sediment Sample Location ID
- 10 NPDES Outfall Location ID

Notes:
 NPDES - National Pollutant Discharge Elimination System
 RTL - Radiological Trigger Levels



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 Fig1_SedimentSamplingLocations.mxd
 Project: EP9038
 Source: Boeing 2009, CIRGIS 2007, HGL 2010
 3/8/2012 pbillock



Figure 2
Radiological Sediment Sampling
Concentrations Exceeding RTLs
Phase I Sediment Sampling
Santa Susana Field Laboratory

U.S. EPA Region 9



Location ID	Analyte	Activity	RTL
EPASED 13	U-238	2.3	1.8
	U-233/234	2.47	2.02

Location ID	Analyte	Activity	RTL
EPASED 17	Cs-137	0.208	0.207

Legend

- Sediment Sample Location Results Below RTLs
- Sediment Sample Locations Exceeding RTLs
- Drainage Pathways
- - - Intermittent Stream
- Permanent Stream
- Subareas

Notes:

All activity and RTL values shown in pCi/g
 Cs - Cesium
 pCi/g - picocuries per gram
 RTL - Radiological Trigger Levels
 U - Uranium



ATTACHMENT 1

Tables

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Table A.1
Sediment Descriptions by Sample Location
Phase 1 Sediment Sampling

Sample Location Identification	Interval Collection (inches)	Soil Description	USCS Classification Symbol	Northing NAD83 SPZ5 US Feet	Easting NAD83 SPZ5 US Feet
EPASED01	0-6	Silty Sand	SM	1909821.31252000	6350748.47227000
EPASED02	0-6	Silty Sand	SM	1907744.85670000	6345335.93257000
EPASED03	0-6	Poorly Graded Sand	SP	1910066.41079000	6351601.32489000
EPASED04	0-6	Sandy Silt with Clay	ML	1910322.57760000	6351734.19011000
EPASED05	0-6	Silty Sand	SM	1910003.93978000	6351148.03151000
EPASED06	0-6	Sandy Silt	ML	1910430.31951000	6351530.79912000
EPASED07	0-6	Poorly Graded Sand with Silt	SP/SM	1906955.86681000	6344733.51711000
EPASED08	0-6	Poorly Graded Sand with Silt	SP/SM	1906894.73537000	6344803.70430000
EPASED09	0-6	Silty Sand	SM	1906990.73649000	6345046.93511000
EPASED10	0-6	Well Graded Sand	SW	1907692.99559000	6345059.31435000
EPASED11	0-6	Silty Sand	SM	1908545.57131000	6345646.14225000
EPASED12	0-6	Well Graded Sand	SW	1908281.72275000	6345779.93955000
EPASED13	0-6	Silty Sand	SM	1909366.90628000	6348282.94472000
EPASED14	0-6	Silty Sand	SM	1909875.69201000	6349776.55328000
EPASED15	0-6	Silty Sand	SM	1910082.96981000	6349354.95471000
EPASED16	0-6	Silty Sand	SM	1908364.70750000	6345166.50049000
EPASED17	0-6	Silty Sand	SM	1909883.25859000	6348902.21874000
EPASED18	0-6	Silty Sand	SM	1910199.05619000	6348466.71961000
EPASED19	0-6	Silty Sand	SM	1910319.00903000	6348246.09112000
EPASED20	0-6	Silty Sand	SM	1910240.48229000	6348181.67261000
EPASED21	0-6	Poorly Graded Sand	SP	1910011.41352000	6348258.62095000
EPASED22	0-6	Silty Sand	SM	1908419.03547000	6345291.48548000
EPASED23	0-6	Silty Sand	SM	1907465.27229000	6344801.09046000

Table A.1
Sediment Descriptions by Sample Location
Phase 1 Sediment Sampling

Sample Location Identification	Interval Collection (inches)	Soil Description	USCS Classification Symbol	Northing NAD83 SPZ5 US Feet	Easting NAD83 SPZ5 US Feet
EPASED24	0-6	Silty Sand	SM	1909591.75426000	6347539.24509000
EPASED25	0-6	Silty Sand	SM	1907465.29689000	6345692.80423000
EPASED26	0-6	Sandy Silt	ML	1908963.52290000	6348141.27866000
EPASED27	0-6	Silty Sand	SM	1908953.23322000	6348022.94688000
EPASED28	0-6	Silty Sand	SM	1908469.61739000	6346273.69775000
EPASED29	0-6	Silty Sand	SM	1908503.05893000	6346793.32762000
EPASED30	0-6	Silty Sand	SM	1910810.24001000	6349006.62011000
EPASED31	0-6	Silty Sand	SM	1907070.21796000	6344480.71741000
EPASED32	0-6	Silty Sand	SM	1907255.43248000	6344349.52345000
EPASED33	0-6	Well Graded Sand	SW	1909076.70968000	6347989.50534000
EPASED34	0-6	Poorly Graded Sand with Silt	SP/SM	1909097.28904000	6348102.69213000
EPASED35	---	--	--	1907648.86936000	6343887.24026000
EPASED36	0-6	Sandy Silt with Clay	ML	1907697.73967000	6344616.99929000
EPASED37	0-6	Silty Sand	SM	1907545.33151000	6345366.25042000
EPASED38	0-6	Silty Sand	SM	1907974.58000000	6345926.68007000
EPASED39	0-6	Poorly Graded Sand	SP	1910214.58011000	6351341.68040000
EPASED40	0-6	Silty Sand	SM	1906508.85753000	6343413.90688000

Notes:

-- = Excavation hole 56 location. Little amount and very saturated sediment - boring log not available

USCS - Unified Soil Classification System

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED01	Ac-227	0.03	0.18	0.061	0.217	U
EPASED01	Ac-228	1.31	0.093	0.047	2.4	J
EPASED01	Ag-108	-0.00184	0.0018	0.00055	NA	R
EPASED01	Ag-108m	-0.0198	0.019	0.0059	NA	R
EPASED01	Am-241	0.0097	0.01	0.004	0.0454	J
EPASED01	Ba-133	-0.114	0.03	0.01	NA	R
EPASED01	Ba-137m	0.062	0.014	0.0067	NA	J
EPASED01	Bi-212	0.956	0.15	0.089	2.15	J
EPASED01	Bi-214	1.05	0.03	0.038	1.59	
EPASED01	Cd-113m	0.4	50	15	3030	U
EPASED01	Cf-249	-0.022	0.079	0.024	NA	U
EPASED01	Cm-243/Cm-244	0.0159	0.011	0.005	0.0443	J
EPASED01	Cm-245/Cm-246	0.0048	0.0032	0.0024	0.0401	J
EPASED01	Cm-247/Cm-248	-0.0023	0.014	0.0031	0.0306	U
EPASED01	Co-60	0.0027	0.021	0.0045	0.028	U
EPASED01	Cs-134	0.011	0.059	0.0047	0.0864	U
EPASED01	Cs-137	0.0655	0.015	0.0071	0.207	J
EPASED01	Eu-152	0.007	0.028	0.017	0.0566	U
EPASED01	Eu-154	-0.05	0.13	0.038	0.15	U
EPASED01	Eu-155	0.089	0.037	0.015	0.231	J
EPASED01	H-3	0.059	0.062	0.02	11.9	J
EPASED01	Ho-166m	0.0119	0.03	0.0092	0.0432	U
EPASED01	K-40	21.1	0.17	0.65	32.4	J
EPASED01	Na-22	0.001	0.025	0.0074	0.037	U
EPASED01	Nb-94	0.0115	0.017	0.0053	0.0214	J
EPASED01	Np-236	-0.009	0.037	0.011	0.047	U
EPASED01	Np-239	-0.002	0.11	0.032	0.139	U
EPASED01	Pa-231	-0.01	0.71	0.21	0.936	U
EPASED01	Pb-212	1.51	0.029	0.062	2.69	
EPASED01	Pb-214	1.18	0.033	0.04	1.7	J
EPASED01	Pu-236	-0.0062	0.011	0.0027	7.79	UL
EPASED01	Pu-238	0.0015	0.0088	0.0024	0.0415	U
EPASED01	Pu-239/Pu-240	0.0044	0.0068	0.0024	0.0404	J
EPASED01	Pu-244	0.0015	0.002	0.001	0.0313	U
EPASED01	Rn-220	1.23	0.03	0.11	NA	
EPASED01	Rn-222	1.11	0.03	0.055	NA	
EPASED01	Sb-125	0.151	0.047	0.014	0.354	J
EPASED01	Sn-126	-0.0003	0.022	0.0065	0.0237	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED01	Sr-90	-0.025	0.071	0.02	0.485	U
EPASED01	Tc-99	0.028	0.071	0.021	1.63	U
EPASED01	Te-125m	0.0348	0.011	0.0031	0.0838	J
EPASED01	Th-228	1.53	0.013	0.079	3.98	K
EPASED01	Th-229	0.0085	0.0023	0.0027	0.145	J
EPASED01	Th-230	1.02	0.004	0.057	2.2	K
EPASED01	Th-232	1.32	0.01	0.07	3.1	K
EPASED01	Th-234	2.18	0.18	0.11	3.19	R
EPASED01	Tl-208	0.472	0.021	0.019	0.937	
EPASED01	Tm-171	-0.1	6.9	2.1	72.4	U
EPASED01	U-233/U-234	1.5	0.013	0.076	2.02	
EPASED01	U-235/U-236	0.061	0.011	0.01	0.151	J
EPASED01	U-238	1.39	0.003	0.071	1.8	
EPASED02	Ac-227	0.023	0.18	0.054	0.217	U
EPASED02	Ac-228	1.38	0.11	0.053	2.4	J
EPASED02	Ag-108	0.00039	0.0011	0.00033	NA	UJ
EPASED02	Ag-108m	0.0042	0.012	0.0035	NA	UJ
EPASED02	Am-241	0.0037	0.0087	0.0027	0.0454	J
EPASED02	Ba-133	-0.128	0.033	0.012	NA	R
EPASED02	Ba-137m	0.0588	0.015	0.0071	NA	J
EPASED02	Bi-212	1.11	0.17	0.11	2.15	
EPASED02	Bi-214	0.914	0.032	0.036	1.59	
EPASED02	Cd-113m	0	51	8.5	3030	U
EPASED02	Cf-249	0.003	0.11	0.033	NA	U
EPASED02	Cm-243/Cm-244	0.0046	0.012	0.0037	0.0443	U
EPASED02	Cm-245/Cm-246	-0.0011	0.0098	0.002	0.0401	U
EPASED02	Cm-247/Cm-248	0	0.0028	0.0012	0.0306	U
EPASED02	Co-60	0.0044	0.02	0.0059	0.028	U
EPASED02	Cs-134	0.0056	0.067	0.0023	0.0864	U
EPASED02	Cs-137	0.0622	0.016	0.0076	0.207	J
EPASED02	Eu-152	0.0007	0.05	0.0019	0.0566	U
EPASED02	Eu-154	0.014	0.12	0.019	0.15	U
EPASED02	Eu-155	0.12	0.055	0.024	0.231	J
EPASED02	H-3	0.049	0.064	0.02	11.9	J
EPASED02	Ho-166m	0.0016	0.024	0.0093	0.0432	U
EPASED02	K-40	19.9	0.15	0.61	32.4	J
EPASED02	Na-22	0.0053	0.025	0.0076	0.037	U
EPASED02	Nb-94	-0.0002	0.018	0.0053	0.0214	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED02	Np-236	-0.008	0.044	0.013	0.047	U
EPASED02	Np-239	0.034	0.11	0.032	0.139	U
EPASED02	Pa-231	0.077	0.79	0.064	0.936	U
EPASED02	Pb-212	1.59	0.028	0.049	2.69	
EPASED02	Pb-214	0.958	0.031	0.043	1.7	J
EPASED02	Pu-236	-0.001	0.009	0.0024	7.79	U
EPASED02	Pu-238	0.0021	0.0028	0.0015	0.0415	U
EPASED02	Pu-239/Pu-240	0.0031	0.0097	0.0029	0.0404	U
EPASED02	Pu-244	0.001	0.0028	0.001	0.0313	U
EPASED02	Rn-220	1.35	0.03	0.12	NA	
EPASED02	Rn-222	0.936	0.031	0.056	NA	
EPASED02	Sb-125	0.127	0.052	0.012	0.354	J
EPASED02	Sn-126	0.0043	0.019	0.0058	0.0237	U
EPASED02	Sr-90	0.1	0.078	0.026	0.485	J
EPASED02	Tc-99	0.048	0.076	0.023	1.63	J
EPASED02	Te-125m	0.0294	0.012	0.0027	0.0838	J
EPASED02	Th-228	1.35	0.022	0.068	3.98	
EPASED02	Th-229	0.0035	0.0024	0.0018	0.145	J
EPASED02	Th-230	0.87	0.008	0.047	2.2	
EPASED02	Th-232	1.44	0.008	0.071	3.1	
EPASED02	Th-234	1.58	0.26	0.097	3.19	R
EPASED02	Tl-208	0.52	0.021	0.021	0.937	
EPASED02	Tm-171	-13.8	11	3.4	72.4	R
EPASED02	U-233/U-234	0.814	0.007	0.044	2.02	
EPASED02	U-235/U-236	0.0355	0.0032	0.0066	0.151	J
EPASED02	U-238	0.885	0.003	0.047	1.8	
EPASED03	Ac-227	-0.034	0.16	0.05	0.217	U
EPASED03	Ac-228	1	0.098	0.041	2.4	
EPASED03	Ag-108	-0.00215	0.0017	0.00052	NA	R
EPASED03	Ag-108m	-0.0231	0.018	0.0056	NA	R
EPASED03	Am-241	0.0029	0.0053	0.0018	0.0454	J
EPASED03	Ba-133	-0.099	0.029	0.01	NA	R
EPASED03	Ba-137m	0.0588	0.015	0.0074	NA	J
EPASED03	Bi-212	0.799	0.12	0.073	2.15	
EPASED03	Bi-214	0.805	0.03	0.031	1.59	
EPASED03	Cd-113m	16	45	14	3030	U
EPASED03	Cf-249	0.0016	0.099	0.0053	NA	U
EPASED03	Cm-243/Cm-244	0.0011	0.0052	0.0014	0.0443	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED03	Cm-245/Cm-246	0.0056	0.0068	0.0027	0.0401	J
EPASED03	Cm-247/Cm-248	0.0018	0.0025	0.0013	0.0306	U
EPASED03	Co-60	-0.0001	0.018	0.0053	0.028	U
EPASED03	Cs-134	0.0127	0.058	0.0065	0.0864	UJ
EPASED03	Cs-137	0.0622	0.016	0.0078	0.207	J
EPASED03	Eu-152	0.034	0.044	0.017	0.0566	J
EPASED03	Eu-154	-0.05	0.12	0.036	0.15	U
EPASED03	Eu-155	0.077	0.049	0.021	0.231	J
EPASED03	H-3	0.015	0.08	0.024	11.9	U
EPASED03	Ho-166m	0.0102	0.027	0.0051	0.0432	U
EPASED03	K-40	22.4	0.14	0.68	32.4	
EPASED03	Na-22	0.0015	0.025	0.0073	0.037	U
EPASED03	Nb-94	0.0024	0.016	0.0024	0.0214	U
EPASED03	Ni-59	0	0.014	0.0051	5.96	UL
EPASED03	Ni-63	-0.01	0.41	0.12	4.92	U
EPASED03	Np-236	-0.001	0.04	0.012	0.047	U
EPASED03	Np-239	-0.002	0.1	0.03	0.139	U
EPASED03	Pa-231	0.16	0.69	0.21	0.936	U
EPASED03	Pb-212	0.918	0.033	0.032	2.69	
EPASED03	Pb-214	0.865	0.03	0.038	1.7	
EPASED03	Pu-236	-0.0026	0.0073	0.0016	7.79	U
EPASED03	Pu-238	0.00138	0.0019	0.00098	0.0415	U
EPASED03	Pu-239/Pu-240	0.00138	0.0019	0.00098	0.0404	U
EPASED03	Pu-244	0.00069	0.0019	0.00069	0.0313	U
EPASED03	Rn-220	0.858	0.033	0.08	NA	
EPASED03	Rn-222	0.835	0.03	0.049	NA	
EPASED03	Sb-125	0.023	0.034	0.01	0.354	J
EPASED03	Sn-126	0.0029	0.018	0.0053	0.0237	U
EPASED03	Sr-90	0.036	0.055	0.017	0.485	J
EPASED03	Tc-99	0.136	0.19	0.059	1.63	
EPASED03	Te-125m	0.0054	0.0079	0.0024	0.0838	J
EPASED03	Th-228	1.02	0.01	0.054	3.98	
EPASED03	Th-229	0.0021	0.0078	0.0022	0.145	U
EPASED03	Th-230	0.789	0.003	0.044	2.2	J
EPASED03	Th-232	1.07	0.003	0.056	3.1	J
EPASED03	Th-234	1.24	0.23	0.083	3.19	R
EPASED03	Tl-208	0.348	0.017	0.015	0.937	
EPASED03	Tm-171	-10.1	9.4	2.9	72.4	R

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED03	U-233/U-234	0.7	0.006	0.038	2.02	
EPASED03	U-235/U-236	0.0377	0.0071	0.0064	0.151	J
EPASED03	U-238	0.727	0.002	0.039	1.8	J
EPASED04	Ac-227	0.068	0.11	0.014	0.217	J
EPASED04	Ac-228	1.19	0.06	0.04	2.4	J
EPASED04	Ag-108	-0.00132	0.0011	0.00035	NA	R
EPASED04	Ag-108m	-0.0142	0.012	0.0038	NA	R
EPASED04	Am-241	0.0047	0.0049	0.002	0.0454	J
EPASED04	Ba-133	-0.0558	0.016	0.0054	NA	R
EPASED04	Ba-137m	0.0153	0.0085	0.0037	NA	J
EPASED04	Bi-212	0.882	0.1	0.062	2.15	J
EPASED04	Bi-214	0.85	0.021	0.029	1.59	
EPASED04	Cd-113m	2	33	10	3030	U
EPASED04	Cf-249	-0.012	0.054	0.016	NA	U
EPASED04	Cm-243/Cm-244	0.0079	0.0048	0.0025	0.0443	J
EPASED04	Cm-245/Cm-246	0.0014	0.0019	0.001	0.0401	U
EPASED04	Cm-247/Cm-248	0.00069	0.0019	0.0007	0.0306	U
EPASED04	Co-60	0.003	0.012	0.0036	0.028	U
EPASED04	Cs-134	0.013	0.033	0.0032	0.0864	U
EPASED04	Cs-137	0.0162	0.009	0.004	0.207	J
EPASED04	Eu-152	-0.0098	0.032	0.0098	0.0566	U
EPASED04	Eu-154	0.028	0.056	0.015	0.15	J
EPASED04	Eu-155	0.072	0.028	0.012	0.231	J
EPASED04	H-3	0.085	0.063	0.021	11.9	J
EPASED04	Ho-166m	0.0062	0.02	0.0041	0.0432	U
EPASED04	K-40	19.4	0.13	0.58	32.4	J
EPASED04	Na-22	0	0.017	0.0051	0.037	U
EPASED04	Nb-94	0.0016	0.011	0.0034	0.0214	U
EPASED04	Np-236	-0.0035	0.027	0.0082	0.047	U
EPASED04	Np-239	-0.01	0.074	0.022	0.139	U
EPASED04	Pa-231	0.03	0.47	0.14	0.936	U
EPASED04	Pb-212	1.47	0.02	0.06	2.69	
EPASED04	Pb-214	0.988	0.022	0.033	1.7	J
EPASED04	Pu-236	0	0.005	0.0012	7.79	U
EPASED04	Pu-238	0.0037	0.0034	0.0015	0.0415	J
EPASED04	Pu-239/Pu-240	-0.00046	0.0043	0.00086	0.0404	U
EPASED04	Pu-244	0	0.0012	0.00051	0.0313	U
EPASED04	Rn-220	1.18	0.02	0.086	NA	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED04	Rn-222	0.919	0.021	0.044	NA	
EPASED04	Sb-125	0.143	0.025	0.01	0.354	J
EPASED04	Sn-126	0.0019	0.013	0.0038	0.0237	U
EPASED04	Sr-90	0.038	0.08	0.024	0.485	U
EPASED04	Tc-99	0.04	0.074	0.023	1.63	J
EPASED04	Te-125m	0.0331	0.0057	0.0023	0.0838	J
EPASED04	Th-228	1.38	0.011	0.071	3.98	
EPASED04	Th-229	0.0068	0.0023	0.0024	0.145	J
EPASED04	Th-230	0.975	0.009	0.053	2.2	
EPASED04	Th-232	1.29	0.009	0.067	3.1	
EPASED04	Th-234	0.389	0.14	0.046	3.19	J R
EPASED04	Tl-208	0.433	0.014	0.016	0.937	
EPASED04	Tm-171	4.5	4.2	1.6	72.4	J
EPASED04	U-233/U-234	0.762	0.002	0.038	2.02	
EPASED04	U-235/U-236	0.0428	0.002	0.0059	0.151	J
EPASED04	U-238	0.755	0.004	0.038	1.8	
EPASED05	Ac-227	0.032	0.18	0.06	0.217	U
EPASED05	Ac-228	1.28	0.1	0.048	2.4	
EPASED05	Ag-108	-0.00116	0.0018	0.00056	NA	UL
EPASED05	Ag-108m	-0.0124	0.02	0.006	NA	UL
EPASED05	Am-241	0.0025	0.0017	0.0012	0.0454	J
EPASED05	Ba-133	-0.0134	0.023	0.0069	NA	UJ
EPASED05	Ba-137m	0.153	0.016	0.0095	NA	J
EPASED05	Bi-212	0.902	0.17	0.094	2.15	
EPASED05	Bi-214	1.02	0.036	0.039	1.59	
EPASED05	Cd-113m	-4	51	15	3030	U
EPASED05	Cf-249	0.019	0.08	0.024	NA	U
EPASED05	Cm-243/Cm-244	0.0006	0.0057	0.0014	0.0443	U
EPASED05	Cm-245/Cm-246	0.0087	0.0064	0.0031	0.0401	J
EPASED05	Cm-247/Cm-248	0.0026	0.0063	0.002	0.0306	J
EPASED05	Co-60	0.0028	0.022	0.0065	0.028	U
EPASED05	Cs-134	0.0091	0.06	0.0039	0.0864	UJ
EPASED05	Cs-137	0.161	0.017	0.01	0.207	
EPASED05	Eu-152	-0.027	0.05	0.015	0.0566	UL
EPASED05	Eu-154	0.029	0.13	0.015	0.15	U
EPASED05	Eu-155	0.076	0.04	0.013	0.231	J
EPASED05	H-3	0.008	0.077	0.023	11.9	U
EPASED05	Ho-166m	0.025	0.032	0.013	0.0432	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED05	K-40	20.2	0.23	0.64	32.4	
EPASED05	Na-22	0.0051	0.026	0.0079	0.037	U
EPASED05	Nb-94	0.0155	0.016	0.0076	0.0214	J
EPASED05	Ni-59	0	0.016	0.0058	5.96	UL
EPASED05	Ni-63	-0.07	0.48	0.14	4.92	U
EPASED05	Np-236	0.007	0.04	0.012	0.047	U
EPASED05	Np-239	0.007	0.089	0.027	0.139	U
EPASED05	Pa-231	-0.07	0.73	0.22	0.936	U
EPASED05	Pb-212	1.48	0.028	0.046	2.69	
EPASED05	Pb-214	1.14	0.034	0.049	1.7	
EPASED05	Pu-236	0.0023	0.005	0.0016	7.79	J
EPASED05	Pu-238	0.0017	0.0046	0.0014	0.0415	J
EPASED05	Pu-239/Pu-240	0.0085	0.0012	0.0019	0.0404	J
EPASED05	Pu-244	0	0.0012	0.00048	0.0313	U
EPASED05	Rn-220	1.19	0.03	0.1	NA	
EPASED05	Rn-222	1.08	0.034	0.063	NA	
EPASED05	Sb-125	0.113	0.046	0.011	0.354	
EPASED05	Sn-126	0.0032	0.021	0.0062	0.0237	U
EPASED05	Sr-90	0.068	0.045	0.015	0.485	
EPASED05	Tc-99	0.025	0.2	0.058	1.63	U
EPASED05	Te-125m	0.026	0.011	0.0026	0.0838	J
EPASED05	Th-228	1.4	0.014	0.069	3.98	
EPASED05	Th-229	0.0016	0.013	0.0031	0.145	U
EPASED05	Th-230	1.01	0.009	0.053	2.2	J
EPASED05	Th-232	1.39	0.006	0.069	3.1	J
EPASED05	Th-234	0.741	0.2	0.068	3.19	J R
EPASED05	Tl-208	0.464	0.023	0.02	0.937	
EPASED05	Tm-171	-1.3	6.7	2	72.4	U
EPASED05	U-233/U-234	0.829	0.005	0.04	2.02	
EPASED05	U-235/U-236	0.0377	0.0017	0.0051	0.151	J
EPASED05	U-238	0.898	0.005	0.043	1.8	J
EPASED06	Ac-227	-0.002	0.16	0.05	0.217	U
EPASED06	Ac-228	1.41	0.097	0.051	2.4	J
EPASED06	Ag-108	-0.00389	0.0017	0.00056	NA	R
EPASED06	Ag-108m	-0.0418	0.018	0.006	NA	R
EPASED06	Am-241	0.0035	0.0065	0.0022	0.0454	J
EPASED06	Ba-133	-0.0378	0.025	0.0078	NA	R
EPASED06	Ba-137m	0.194	0.013	0.0096	NA	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED06	Bi-212	1.1	0.14	0.084	2.15	
EPASED06	Bi-214	0.957	0.026	0.034	1.59	
EPASED06	Cd-113m	0.3	48	14	3030	U
EPASED06	Cf-249	0.0043	0.066	0.0045	NA	U
EPASED06	Cm-243/Cm-244	0.0009	0.0063	0.0016	0.0443	U
EPASED06	Cm-245/Cm-246	0.0034	0.0084	0.0026	0.0401	J
EPASED06	Cm-247/Cm-248	0	0.0082	0.0017	0.0306	U
EPASED06	Co-60	-0.0008	0.02	0.0015	0.028	U
EPASED06	Cs-134	0.014	0.061	0.0045	0.0864	U
EPASED06	Cs-137	0.205	0.014	0.01	0.207	
EPASED06	Eu-152	-0.008	0.045	0.014	0.0566	U
EPASED06	Eu-154	0.005	0.11	0.031	0.15	U
EPASED06	Eu-155	0.081	0.047	0.019	0.231	J
EPASED06	H-3	0.063	0.063	0.02	11.9	J
EPASED06	Ho-166m	-0.0077	0.027	0.0083	0.0432	U
EPASED06	K-40	20.1	0.13	0.61	32.4	J
EPASED06	Na-22	0.0002	0.019	0.0057	0.037	U
EPASED06	Nb-94	0.007	0.015	0.0047	0.0214	U
EPASED06	Np-236	-0.001	0.041	0.012	0.047	U
EPASED06	Np-239	-0.031	0.11	0.032	0.139	U
EPASED06	Pa-231	0.07	0.7	0.21	0.936	U
EPASED06	Pb-212	1.39	0.035	0.045	2.69	
EPASED06	Pb-214	1	0.03	0.044	1.7	J
EPASED06	Pu-236	0	0.0013	0.00053	7.79	U
EPASED06	Pu-238	0.0048	0.0071	0.0026	0.0415	J
EPASED06	Pu-239/Pu-240	0.0067	0.0026	0.0026	0.0404	J
EPASED06	Pu-244	0	0.0026	0.0011	0.0313	U
EPASED06	Rn-220	1.25	0.035	0.095	NA	
EPASED06	Rn-222	0.979	0.026	0.056	NA	
EPASED06	Sb-125	0.147	0.047	0.013	0.354	J
EPASED06	Sn-126	0.0024	0.017	0.0052	0.0237	U
EPASED06	Sr-90	0.014	0.063	0.019	0.485	U
EPASED06	Tc-99	0.004	0.082	0.025	1.63	U
EPASED06	Te-125m	0.034	0.011	0.0031	0.0838	J
EPASED06	Th-228	1.31	0.01	0.064	3.98	
EPASED06	Th-229	0.0042	0.0038	0.0024	0.145	J
EPASED06	Th-230	1	0.002	0.05	2.2	
EPASED06	Th-232	1.26	0.008	0.062	3.1	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED06	Th-234	1.51	0.24	0.089	3.19	R
EPASED06	Tl-208	0.511	0.019	0.02	0.937	
EPASED06	Tm-171	-12.7	9.6	3	72.4	R
EPASED06	U-233/U-234	0.943	0.022	0.052	2.02	
EPASED06	U-235/U-236	0.0485	0.015	0.0093	0.151	J
EPASED06	U-238	0.976	0.003	0.053	1.8	
EPASED07	Ac-227	0.031	0.11	0.067	0.217	U
EPASED07	Ac-228	1.22	0.095	0.045	2.4	
EPASED07	Ag-108	-0.00035	0.0015	0.00045	NA	U
EPASED07	Ag-108m	-0.0037	0.016	0.0049	NA	U
EPASED07	Am-241	0.0043	0.0039	0.0017	0.0454	J
EPASED07	Ba-133	-0.0168	0.019	0.0058	NA	UJ
EPASED07	Ba-137m	0.0535	0.015	0.0075	NA	J
EPASED07	Bi-212	0.92	0.15	0.088	2.15	
EPASED07	Bi-214	0.847	0.03	0.032	1.59	
EPASED07	Cd-113m	7	43	13	3030	U
EPASED07	Cf-249	0.03	0.069	0.021	NA	U
EPASED07	Cm-243/Cm-244	0.00157	0.0014	0.00091	0.0443	J
EPASED07	Cm-245/Cm-246	0.0014	0.01	0.0024	0.0401	U
EPASED07	Cm-247/Cm-248	0	0.0098	0.002	0.0306	U
EPASED07	Co-60	-0.01	0.021	0.0065	0.028	U
EPASED07	Cs-134	-0.0161	0.019	0.0058	0.0864	UJ
EPASED07	Cs-137	0.0565	0.015	0.0079	0.207	J
EPASED07	Eu-152	0.014	0.042	0.013	0.0566	U
EPASED07	Eu-154	0.0089	0.12	0.0071	0.15	U
EPASED07	Eu-155	0.01	0.035	0.011	0.231	U
EPASED07	H-3	-0.005	0.078	0.022	11.9	U
EPASED07	Ho-166m	0.0072	0.028	0.0076	0.0432	U
EPASED07	K-40	20.9	0.15	0.64	32.4	
EPASED07	Na-22	0.0018	0.027	0.008	0.037	U
EPASED07	Nb-94	0.0036	0.016	0.0033	0.0214	U
EPASED07	Ni-59	0	0.016	0.0059	5.96	UL
EPASED07	Ni-63	-0.13	0.47	0.14	4.92	U
EPASED07	Np-236	-0.0025	0.031	0.0094	0.047	U
EPASED07	Np-239	0.019	0.096	0.029	0.139	U
EPASED07	Pa-231	0.009	0.66	0.2	0.936	U
EPASED07	Pb-212	1.48	0.023	0.06	2.69	
EPASED07	Pb-214	0.961	0.03	0.034	1.7	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED07	Pu-236	-0.0004	0.0047	0.0011	7.79	U
EPASED07	Pu-238	0.0005	0.005	0.0013	0.0415	U
EPASED07	Pu-239/Pu-240	0.0032	0.0014	0.0013	0.0404	J
EPASED07	Pu-244	0.00053	0.0014	0.00053	0.0313	U
EPASED07	Rn-220	1.2	0.02	0.11	NA	
EPASED07	Rn-222	0.904	0.03	0.047	NA	
EPASED07	Sb-125	0.131	0.046	0.012	0.354	
EPASED07	Sn-126	0.0016	0.019	0.0056	0.0237	U
EPASED07	Sr-90	0.067	0.062	0.02	0.485	
EPASED07	Tc-99	0.035	0.17	0.05	1.63	U
EPASED07	Te-125m	0.0302	0.011	0.0027	0.0838	J
EPASED07	Th-228	1.23	0.013	0.066	3.98	
EPASED07	Th-229	0.0136	0.0071	0.004	0.145	J
EPASED07	Th-230	0.839	0.004	0.049	2.2	
EPASED07	Th-232	1.07	0.004	0.059	3.1	
EPASED07	Th-234	0.489	0.18	0.059	3.19	J R
EPASED07	Tl-208	0.439	0.016	0.017	0.937	
EPASED07	Tm-171	-1	6	1.8	72.4	U
EPASED07	U-233/U-234	1	0.005	0.05	2.02	
EPASED07	U-235/U-236	0.0422	0.0024	0.0064	0.151	J
EPASED07	U-238	0.916	0.002	0.046	1.8	J
EPASED08	Ac-227	0.058	0.15	0.054	0.217	U
EPASED08	Ac-228	1.05	0.082	0.042	2.4	
EPASED08	Ag-108	0.00003	0.0014	0.0001	NA	U
EPASED08	Ag-108m	0.0004	0.015	0.0011	NA	U
EPASED08	Am-241	0.0005	0.0046	0.0012	0.0454	U
EPASED08	Ba-133	-0.0563	0.021	0.0068	NA	R
EPASED08	Ba-137m	0.121	0.015	0.0088	NA	J
EPASED08	Bi-212	0.946	0.14	0.084	2.15	
EPASED08	Bi-214	0.961	0.026	0.034	1.59	
EPASED08	Cd-113m	9	41	12	3030	U
EPASED08	Cf-249	0.043	0.06	0.019	NA	J
EPASED08	Cm-243/Cm-244	0	0.0013	0.00054	0.0443	U
EPASED08	Cm-245/Cm-246	0.0023	0.014	0.0037	0.0401	U
EPASED08	Cm-247/Cm-248	0.0022	0.0082	0.0023	0.0306	U
EPASED08	Co-60	0.0027	0.02	0.0037	0.028	U
EPASED08	Cs-134	-0.0256	0.018	0.0058	0.0864	R
EPASED08	Cs-137	0.128	0.016	0.0093	0.207	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED08	Eu-152	-0.0019	0.04	0.0028	0.0566	U
EPASED08	Eu-154	-0.0019	0.11	0.0024	0.15	U
EPASED08	Eu-155	0.066	0.034	0.013	0.231	J
EPASED08	H-3	0.089	0.063	0.021	11.9	J
EPASED08	Ho-166m	0.000042	0.027	0.000049	0.0432	U
EPASED08	K-40	20.6	0.15	0.63	32.4	
EPASED08	Na-22	0.009	0.025	0.0076	0.037	U
EPASED08	Nb-94	0.0067	0.015	0.0046	0.0214	U
EPASED08	Ni-59	0	0.015	0.0056	5.96	UL
EPASED08	Ni-63	-0.01	0.46	0.14	4.92	U
EPASED08	Np-236	-0.0093	0.033	0.0099	0.047	U
EPASED08	Np-239	-0.01	0.09	0.027	0.139	U
EPASED08	Pa-231	-0.002	0.62	0.19	0.936	U
EPASED08	Pb-212	1.33	0.026	0.055	2.69	
EPASED08	Pb-214	1.06	0.027	0.036	1.7	
EPASED08	Pu-236	0.0028	0.006	0.0019	7.79	J
EPASED08	Pu-238	0.0026	0.0048	0.0016	0.0415	J
EPASED08	Pu-239/Pu-240	0.0079	0.0061	0.0027	0.0404	J
EPASED08	Pu-244	-0.00066	0.0048	0.00073	0.0313	U
EPASED08	Rn-220	1.14	0.03	0.1	NA	
EPASED08	Rn-222	1.01	0.026	0.05	NA	
EPASED08	Sb-125	0.108	0.043	0.0094	0.354	
EPASED08	Sn-126	-0.0004	0.017	0.0051	0.0237	U
EPASED08	Sr-90	0.033	0.055	0.017	0.485	J
EPASED08	Tc-99	-0.018	0.15	0.045	1.63	U
EPASED08	Te-125m	0.0249	0.01	0.0022	0.0838	J
EPASED08	Th-228	1.02	0.017	0.061	3.98	
EPASED08	Th-228	1.17	0.012	0.064	3.98	
EPASED08	Th-229	0.004	0.0027	0.002	0.145	J
EPASED08	Th-230	0.892	0.005	0.055	2.2	J
EPASED08	Th-230	1	0.004	0.056	2.2	J
EPASED08	Th-232	0.993	0.011	0.06	3.1	J
EPASED08	Th-232	1.07	0.009	0.059	3.1	J
EPASED08	Th-234	0.637	0.15	0.053	3.19	J R
EPASED08	Tl-208	0.434	0.019	0.018	0.937	
EPASED08	Tm-171	-0.03	6.1	1.8	72.4	U
EPASED08	U-233/U-234	0.662	0.002	0.035	2.02	
EPASED08	U-235/U-236	0.0356	0.0025	0.0059	0.151	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED08	U-238	0.676	0.002	0.036	1.8	J
EPASED09	Ac-227	-0.027	0.16	0.048	0.217	U
EPASED09	Ac-228	1.08	0.077	0.041	2.4	
EPASED09	Ag-108	-0.00097	0.0014	0.00044	NA	UL
EPASED09	Ag-108m	-0.0105	0.015	0.0047	NA	UL
EPASED09	Am-241	0.001	0.0048	0.0013	0.0454	U
EPASED09	Ba-133	-0.0379	0.023	0.0074	NA	R
EPASED09	Ba-137m	0.072	0.013	0.0069	NA	J
EPASED09	Bi-212	0.847	0.11	0.064	2.15	
EPASED09	Bi-214	0.882	0.03	0.034	1.59	
EPASED09	Cd-113m	-3	45	13	3030	U
EPASED09	Cf-249	-0.044	0.071	0.022	NA	UL
EPASED09	Cm-243/Cm-244	0.0005	0.0047	0.0012	0.0443	U
EPASED09	Cm-245/Cm-246	0.0063	0.0085	0.003	0.0401	J
EPASED09	Cm-247/Cm-248	0.0023	0.0072	0.0021	0.0306	U
EPASED09	Co-60	0.00013	0.018	0.00029	0.028	U
EPASED09	Cs-134	0.0122	0.059	0.0037	0.0864	UJ
EPASED09	Cs-137	0.0761	0.013	0.0072	0.207	J
EPASED09	Eu-152	0.0199	0.044	0.0099	0.0566	U
EPASED09	Eu-154	0.031	0.1	0.024	0.15	U
EPASED09	Eu-155	0.076	0.05	0.022	0.231	J
EPASED09	H-3	0.037	0.076	0.023	11.9	J
EPASED09	Ho-166m	0.0177	0.026	0.008	0.0432	J
EPASED09	K-40	17.6	0.12	0.54	32.4	
EPASED09	Na-22	0	0.027	0.0041	0.037	U
EPASED09	Nb-94	0.0018	0.015	0.0033	0.0214	U
EPASED09	Ni-59	0	0.014	0.0051	5.96	UL
EPASED09	Ni-63	-0.1	0.43	0.13	4.92	U
EPASED09	Np-236	-0.012	0.039	0.012	0.047	U
EPASED09	Np-239	-0.009	0.1	0.03	0.139	U
EPASED09	Pa-231	-0.09	0.67	0.2	0.936	U
EPASED09	Pb-212	1.25	0.024	0.039	2.69	
EPASED09	Pb-214	0.967	0.03	0.043	1.7	
EPASED09	Pu-236	-0.0008	0.0048	0.0011	7.79	U
EPASED09	Pu-238	0.00047	0.0035	0.00085	0.0415	U
EPASED09	Pu-239/Pu-240	0.0033	0.0013	0.0013	0.0404	J
EPASED09	Pu-244	0.00047	0.0013	0.00047	0.0313	U
EPASED09	Rn-220	1.05	0.024	0.075	NA	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED09	Rn-222	0.924	0.03	0.055	NA	
EPASED09	Sb-125	0.094	0.044	0.009	0.354	
EPASED09	Sn-126	0.0008	0.013	0.0037	0.0237	U
EPASED09	Sr-90	0.014	0.053	0.016	0.485	U
EPASED09	Tc-99	-0.04	0.17	0.051	1.63	U
EPASED09	Te-125m	0.0217	0.01	0.0021	0.0838	J
EPASED09	Th-228	1.03	0.006	0.052	3.98	
EPASED09	Th-229	0.0031	0.0021	0.0016	0.145	J
EPASED09	Th-230	0.765	0.006	0.041	2.2	J
EPASED09	Th-232	1.02	0.006	0.052	3.1	J
EPASED09	Th-234	1.26	0.22	0.079	3.19	R
EPASED09	Tl-208	0.399	0.016	0.016	0.937	
EPASED09	Tm-171	-11.3	9.2	2.9	72.4	R
EPASED09	U-233/U-234	0.8	0.006	0.041	2.02	
EPASED09	U-235/U-236	0.033	0.0023	0.0055	0.151	J
EPASED09	U-238	0.859	0.002	0.043	1.8	J
EPASED10	Ac-227	0.109	0.11	0.025	0.217	J
EPASED10	Ac-228	1.2	0.11	0.045	2.4	
EPASED10	Ag-108	-0.00276	0.0019	0.00059	NA	R
EPASED10	Ag-108m	-0.0297	0.02	0.0064	NA	R
EPASED10	Am-241	-0.0011	0.0069	0.0015	0.0454	U
EPASED10	Ba-133	-0.044	0.025	0.008	NA	R
EPASED10	Ba-137m	0.0639	0.015	0.0075	NA	J
EPASED10	Bi-212	0.962	0.15	0.088	2.15	
EPASED10	Bi-214	0.976	0.031	0.036	1.59	
EPASED10	Cd-113m	13	51	15	3030	U
EPASED10	Cf-249	0.058	0.071	0.022	NA	J
EPASED10	Cm-243/Cm-244	-0.00112	0.0052	0.00089	0.0443	U
EPASED10	Cm-245/Cm-246	0.0101	0.0067	0.0031	0.0401	J
EPASED10	Cm-247/Cm-248	0.0007	0.0052	0.0013	0.0306	U
EPASED10	Co-60	-0.0047	0.025	0.0075	0.028	U
EPASED10	Cs-134	0.0145	0.063	0.0055	0.0864	UJ
EPASED10	Cs-137	0.0675	0.016	0.008	0.207	J
EPASED10	Eu-152	0.007	0.049	0.014	0.0566	U
EPASED10	Eu-154	-0.043	0.14	0.043	0.15	U
EPASED10	Eu-155	0.076	0.037	0.015	0.231	J
EPASED10	H-3	0.028	0.076	0.023	11.9	U
EPASED10	Ho-166m	0.009	0.028	0.011	0.0432	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED10	K-40	24	0.15	0.74	32.4	
EPASED10	Na-22	-0.0002	0.031	0.0092	0.037	U
EPASED10	Nb-94	0.0047	0.019	0.0056	0.0214	U
EPASED10	Ni-59	0	0.019	0.0072	5.96	UL
EPASED10	Ni-63	-0.28	0.59	0.17	4.92	U
EPASED10	Np-236	0.0002	0.035	0.011	0.047	U
EPASED10	Np-239	0.018	0.11	0.032	0.139	U
EPASED10	Pa-231	0.06	0.73	0.15	0.936	U
EPASED10	Pb-212	1.56	0.025	0.064	2.69	
EPASED10	Pb-214	1.05	0.034	0.038	1.7	
EPASED10	Pu-236	0.0123	0.0057	0.0028	7.79	J
EPASED10	Pu-238	0.0033	0.0013	0.0013	0.0415	J
EPASED10	Pu-239/Pu-240	0.0066	0.0013	0.0018	0.0404	J
EPASED10	Pu-244	0.00047	0.0013	0.00047	0.0313	U
EPASED10	Rn-220	1.26	0.03	0.11	NA	
EPASED10	Rn-222	1.01	0.031	0.053	NA	
EPASED10	Sb-125	0.133	0.052	0.013	0.354	
EPASED10	Sn-126	0	0.022	0.0046	0.0237	U
EPASED10	Sr-90	0.044	0.053	0.017	0.485	J
EPASED10	Tc-99	0.02	0.16	0.047	1.63	U
EPASED10	Te-125m	0.0308	0.012	0.0029	0.0838	J
EPASED10	Th-228	1.31	0.01	0.065	3.98	
EPASED10	Th-229	0.0088	0.0022	0.0027	0.145	J
EPASED10	Th-230	0.939	0.007	0.05	2.2	J
EPASED10	Th-232	1.17	0.003	0.059	3.1	J
EPASED10	Th-234	0.451	0.2	0.063	3.19	J R
EPASED10	Tl-208	0.477	0.022	0.02	0.937	
EPASED10	Tm-171	3.3	7	2.1	72.4	U
EPASED10	U-233/U-234	0.86	0.004	0.041	2.02	
EPASED10	U-235/U-236	0.0453	0.0015	0.0054	0.151	J
EPASED10	U-238	0.847	0.003	0.041	1.8	J
EPASED11	Ac-227	0.06	0.18	0.072	0.217	U
EPASED11	Ac-228	1.25	0.11	0.05	2.4	J
EPASED11	Ag-108	-0.00218	0.0019	0.0006	NA	R
EPASED11	Ag-108m	-0.0234	0.02	0.0064	NA	R
EPASED11	Am-241	0	0.01	0.0027	0.0454	U
EPASED11	Ba-133	-0.115	0.03	0.01	NA	R
EPASED11	Ba-137m	0.102	0.016	0.0085	NA	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED11	Bi-212	1.03	0.15	0.084	2.15	J
EPASED11	Bi-214	1.13	0.033	0.041	1.59	
EPASED11	Cd-113m	-0.6	51	15	3030	U
EPASED11	Cf-249	-0.011	0.083	0.025	NA	U
EPASED11	Cm-243/Cm-244	0.0008	0.012	0.0034	0.0443	U
EPASED11	Cm-245/Cm-246	0.0011	0.01	0.0026	0.0401	U
EPASED11	Cm-247/Cm-248	-0.0011	0.01	0.002	0.0306	U
EPASED11	Co-60	-0.00033	0.023	0.00086	0.028	U
EPASED11	Cs-134	0.0102	0.063	0.0043	0.0864	U
EPASED11	Cs-137	0.108	0.016	0.0089	0.207	
EPASED11	Eu-152	-0.0031	0.047	0.0054	0.0566	U
EPASED11	Eu-154	-0.00132	0.14	0.00088	0.15	U
EPASED11	Eu-155	0.114	0.037	0.015	0.231	J
EPASED11	H-3	0.091	0.061	0.02	11.9	J
EPASED11	Ho-166m	0.0102	0.033	0.0073	0.0432	U
EPASED11	K-40	21.9	0.19	0.68	32.4	J
EPASED11	Na-22	-0.0044	0.022	0.0066	0.037	U
EPASED11	Nb-94	0.0057	0.018	0.0055	0.0214	U
EPASED11	Np-236	-0.017	0.038	0.012	0.047	U
EPASED11	Np-239	-0.014	0.1	0.032	0.139	U
EPASED11	Pa-231	-0.22	0.76	0.23	0.936	U
EPASED11	Pb-212	1.54	0.035	0.064	2.69	
EPASED11	Pb-214	1.27	0.033	0.044	1.7	J
EPASED11	Pu-236	-0.001	0.0055	0.0011	7.79	U
EPASED11	Pu-238	0	0.0051	0.0013	0.0415	U
EPASED11	Pu-239/Pu-240	0.0038	0.004	0.0016	0.0404	J
EPASED11	Pu-244	0.00085	0.0031	0.00088	0.0313	U
EPASED11	Rn-220	1.29	0.04	0.11	NA	
EPASED11	Rn-222	1.2	0.033	0.06	NA	
EPASED11	Sb-125	0.117	0.05	0.011	0.354	J
EPASED11	Sn-126	-0.007	0.022	0.0066	0.0237	U
EPASED11	Sr-90	0.011	0.064	0.019	0.485	U
EPASED11	Te-125m	0.027	0.012	0.0024	0.0838	J
EPASED11	Th-228	1.32	0.013	0.068	3.98	
EPASED11	Th-229	0.0059	0.0055	0.0024	0.145	J
EPASED11	Th-230	1.01	0.011	0.055	2.2	
EPASED11	Th-232	1.27	0.01	0.066	3.1	
EPASED11	Th-234	1.93	0.18	0.11	3.19	R

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED11	Tl-208	0.517	0.021	0.021	0.937	
EPASED11	Tm-171	5.8	5.6	2.1	72.4	J
EPASED11	U-233/U-234	1.19	0.007	0.061	2.02	
EPASED11	U-235/U-236	0.0601	0.0033	0.009	0.151	J
EPASED11	U-238	1.19	0.007	0.061	1.8	
EPASED12	Ac-227	0.377	0.16	0.018	0.217	J
EPASED12	Ac-228	1.26	0.11	0.048	2.4	J
EPASED12	Ag-108	-0.00161	0.0016	0.00049	NA	R
EPASED12	Ag-108m	-0.0173	0.017	0.0053	NA	R
EPASED12	Am-241	0.0041	0.011	0.0033	0.0454	U
EPASED12	Ba-133	-0.0251	0.022	0.0068	NA	R
EPASED12	Ba-137m	0.0647	0.014	0.0075	NA	J
EPASED12	Bi-212	0.939	0.13	0.071	2.15	J
EPASED12	Bi-214	1.03	0.03	0.038	1.59	
EPASED12	Cd-113m	8	42	13	3030	U
EPASED12	Cf-249	0.0112	0.071	0.0064	NA	U
EPASED12	Cm-243/Cm-244	0.0064	0.0097	0.0033	0.0443	J
EPASED12	Cm-245/Cm-246	0.0021	0.0028	0.0015	0.0401	U
EPASED12	Cm-247/Cm-248	0	0.0074	0.0015	0.0306	U
EPASED12	Co-60	-0.0001	0.019	0.0057	0.028	U
EPASED12	Cs-134	0.0184	0.056	0.0067	0.0864	U
EPASED12	Cs-137	0.0684	0.015	0.0079	0.207	J
EPASED12	Eu-152	-0.011	0.043	0.013	0.0566	U
EPASED12	Eu-154	-0.048	0.13	0.039	0.15	U
EPASED12	Eu-155	0.099	0.033	0.014	0.231	J
EPASED12	H-3	0.08	0.06	0.02	11.9	J
EPASED12	Ho-166m	0.0071	0.029	0.006	0.0432	U
EPASED12	K-40	22.4	0.16	0.68	32.4	J
EPASED12	Na-22	0.0027	0.027	0.0081	0.037	U
EPASED12	Nb-94	0.0063	0.016	0.0049	0.0214	U
EPASED12	Np-236	-0.0087	0.033	0.0099	0.047	U
EPASED12	Np-239	-0.006	0.098	0.029	0.139	U
EPASED12	Pa-231	0.003	0.58	0.17	0.936	U
EPASED12	Pb-212	1.51	0.025	0.062	2.69	
EPASED12	Pb-214	1.17	0.032	0.041	1.7	J
EPASED12	Pu-236	0	0.0013	0.00054	7.79	U
EPASED12	Pu-238	0.004	0.0036	0.0016	0.0415	J
EPASED12	Pu-239/Pu-240	0.002	0.0046	0.0014	0.0404	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED12	Pu-242	0	0	0	0.0404	J
EPASED12	Pu-244	0	0.0013	0.00055	0.0313	U
EPASED12	Rn-220	1.22	0.025	0.094	NA	
EPASED12	Rn-222	1.1	0.03	0.055	NA	
EPASED12	Sb-125	0.129	0.045	0.011	0.354	J
EPASED12	Sn-126	0.00003	0.016	0.0048	0.0237	U
EPASED12	Sr-90	0.01	0.081	0.024	0.485	U
EPASED12	Tc-99	0.076	0.087	0.027	1.63	J
EPASED12	Te-125m	0.0298	0.01	0.0025	0.0838	J
EPASED12	Th-228	1.22	0.012	0.063	3.98	
EPASED12	Th-229	0.0024	0.0055	0.0018	0.145	J
EPASED12	Th-230	1.16	0.003	0.06	2.2	
EPASED12	Th-232	1.33	0.012	0.068	3.1	
EPASED12	Th-234	2.41	0.17	0.12	3.19	R
EPASED12	Tl-208	0.46	0.018	0.018	0.937	
EPASED12	Tm-171	-3	5.9	1.8	72.4	UL
EPASED12	U-233/U-234	1.74	0.013	0.086	2.02	
EPASED12	U-235/U-236	0.09	0.004	0.012	0.151	
EPASED12	U-238	1.74	0.003	0.086	1.8	
EPASED13	Ac-227	0.106	0.15	0.047	0.217	J
EPASED13	Ac-228	1.76	0.12	0.061	2.4	J
EPASED13	Ag-108	-0.0071	0.0025	0.00084	NA	R
EPASED13	Ag-108m	-0.0763	0.027	0.009	NA	R
EPASED13	Am-241	0	0.012	0.0027	0.0454	U
EPASED13	Ba-133	-0.146	0.035	0.012	NA	R
EPASED13	Ba-137m	0.148	0.02	0.012	NA	
EPASED13	Bi-212	1.32	0.18	0.11	2.15	
EPASED13	Bi-214	1.41	0.036	0.05	1.59	
EPASED13	Cd-113m	18	57	17	3030	U
EPASED13	Cf-249	0.0166	0.094	0.009	NA	U
EPASED13	Cm-243/Cm-244	-0.0074	0.021	0.005	0.0443	U
EPASED13	Cm-245/Cm-246	0.0022	0.003	0.0016	0.0401	U
EPASED13	Cm-247/Cm-248	0.0011	0.0079	0.0019	0.0306	U
EPASED13	Co-60	0.003	0.028	0.0031	0.028	U
EPASED13	Cs-134	0.0129	0.014	0.0058	0.0864	J
EPASED13	Cs-137	0.156	0.021	0.013	0.207	
EPASED13	Eu-152	-0.000023	0.054	0.000032	0.0566	U
EPASED13	Eu-154	-0.064	0.15	0.047	0.15	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED13	Eu-155	0.115	0.047	0.02	0.231	J
EPASED13	H-3	0.079	0.062	0.02	11.9	J
EPASED13	Ho-166m	0.0074	0.032	0.0076	0.0432	U
EPASED13	K-40	21.1	0.21	0.66	32.4	J
EPASED13	Na-22	-0.011	0.033	0.01	0.037	U
EPASED13	Nb-94	0.0094	0.021	0.0064	0.0214	U
EPASED13	Np-236	-0.006	0.044	0.013	0.047	U
EPASED13	Np-239	0.002	0.13	0.038	0.139	U
EPASED13	Pa-231	0.12	0.87	0.11	0.936	U
EPASED13	Pb-212	2.11	0.037	0.086	2.69	
EPASED13	Pb-214	1.63	0.038	0.054	1.7	J
EPASED13	Pu-236	0.001	0.0085	0.0024	7.79	U
EPASED13	Pu-238	0.0036	0.0056	0.002	0.0415	J
EPASED13	Pu-239/Pu-240	0.0036	0.0016	0.0015	0.0404	J
EPASED13	Pu-244	0.0006	0.0016	0.0006	0.0313	U
EPASED13	Rn-220	1.71	0.04	0.14	NA	
EPASED13	Rn-222	1.52	0.036	0.073	NA	
EPASED13	Sb-125	0.209	0.05	0.018	0.354	
EPASED13	Sn-126	0.0002	0.025	0.0073	0.0237	U
EPASED13	Sr-90	0.106	0.06	0.021	0.485	J
EPASED13	Te-125m	0.0482	0.011	0.0041	0.0838	J
EPASED13	Th-228	1.79	0.009	0.089	3.98	
EPASED13	Th-229	0.0037	0.0099	0.003	0.145	J
EPASED13	Th-230	1.37	0.012	0.071	2.2	
EPASED13	Th-232	1.62	0.009	0.082	3.1	
EPASED13	Th-234	3.45	0.22	0.16	3.19	
EPASED13	Tl-208	0.648	0.024	0.025	0.937	
EPASED13	Tm-171	-7.1	7.2	2.2	72.4	UL
EPASED13	U-233/U-234	2.47	0.003	0.12	2.02	
EPASED13	U-235/U-236	0.114	0.004	0.013	0.151	
EPASED13	U-238	2.3	0.01	0.11	1.8	
EPASED14	Ac-227	0.018	0.16	0.061	0.217	U
EPASED14	Ac-228	1.26	0.089	0.044	2.4	J
EPASED14	Ag-108	-0.00157	0.0017	0.00053	NA	UJ
EPASED14	Ag-108m	-0.0169	0.018	0.0057	NA	UJ
EPASED14	Am-241	0.0052	0.0055	0.0023	0.0454	J
EPASED14	Ba-133	-0.0605	0.022	0.0075	NA	R
EPASED14	Ba-137m	0.101	0.015	0.0082	NA	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED14	Bi-212	0.98	0.12	0.057	2.15	J
EPASED14	Bi-214	0.991	0.031	0.037	1.59	
EPASED14	Cd-113m	-13	45	14	3030	U
EPASED14	Cf-249	0.0035	0.076	0.0031	NA	U
EPASED14	Cm-243/Cm-244	-0.0037	0.013	0.0033	0.0443	U
EPASED14	Cm-245/Cm-246	0	0.0066	0.0014	0.0401	U
EPASED14	Cm-247/Cm-248	0.0027	0.0024	0.0015	0.0306	J
EPASED14	Co-60	-0.0057	0.021	0.0062	0.028	U
EPASED14	Cs-134	0.014	0.055	0.0055	0.0864	U
EPASED14	Cs-137	0.107	0.015	0.0087	0.207	
EPASED14	Eu-152	0.005	0.039	0.003	0.0566	U
EPASED14	Eu-154	-0.04	0.11	0.034	0.15	U
EPASED14	Eu-155	0.085	0.037	0.015	0.231	J
EPASED14	H-3	0.032	0.063	0.019	11.9	J
EPASED14	Ho-166m	0.0396	0.029	0.0058	0.0432	J
EPASED14	K-40	19.7	0.16	0.61	32.4	J
EPASED14	Na-22	0.0052	0.025	0.0074	0.037	U
EPASED14	Nb-94	0.0056	0.016	0.0034	0.0214	U
EPASED14	Np-236	-0.0001	0.035	0.01	0.047	U
EPASED14	Np-239	-0.0006	0.08	0.024	0.139	U
EPASED14	Pa-231	0.23	0.63	0.16	0.936	U
EPASED14	Pb-212	1.46	0.025	0.045	2.69	
EPASED14	Pb-214	1.06	0.031	0.045	1.7	J
EPASED14	Pu-236	-0.00047	0.0044	0.00088	7.79	U
EPASED14	Pu-238	0.0038	0.0044	0.0017	0.0415	J
EPASED14	Pu-239/Pu-240	0.0024	0.0013	0.0011	0.0404	J
EPASED14	Pu-244	0	0.0013	0.00052	0.0313	U
EPASED14	Rn-220	1.22	0.025	0.073	NA	
EPASED14	Rn-222	1.03	0.031	0.058	NA	
EPASED14	Sb-125	0.102	0.047	0.0089	0.354	J
EPASED14	Sn-126	-0.0002	0.018	0.0053	0.0237	U
EPASED14	Sr-90	0.053	0.071	0.022	0.485	J
EPASED14	Tc-99	0.041	0.083	0.025	1.63	J
EPASED14	Te-125m	0.0234	0.011	0.0021	0.0838	J
EPASED14	Th-228	1.23	0.009	0.062	3.98	
EPASED14	Th-229	0.0073	0.0059	0.0027	0.145	J
EPASED14	Th-230	0.958	0.007	0.051	2.2	
EPASED14	Th-232	1.06	0.003	0.055	3.1	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED14	Th-234	2.17	0.19	0.11	3.19	R
EPASED14	Tl-208	0.481	0.02	0.019	0.937	
EPASED14	Tm-171	-3.6	6	1.8	72.4	UL
EPASED14	U-233/U-234	1.59	0.004	0.081	2.02	
EPASED14	U-235/U-236	0.081	0.012	0.012	0.151	
EPASED14	U-238	1.53	0.004	0.078	1.8	
EPASED15	Ac-227	0.044	0.16	0.049	0.217	U
EPASED15	Ac-228	1.14	0.097	0.042	2.4	J
EPASED15	Ag-108	-0.00453	0.0019	0.00061	NA	R
EPASED15	Ag-108m	-0.0487	0.02	0.0066	NA	R
EPASED15	Am-241	0.0008	0.0099	0.0026	0.0454	U
EPASED15	Ba-133	-0.111	0.027	0.0094	NA	R
EPASED15	Ba-137m	0.0608	0.014	0.0073	NA	J
EPASED15	Bi-212	0.9	0.13	0.08	2.15	J
EPASED15	Bi-214	1.02	0.031	0.037	1.59	
EPASED15	Cd-113m	-0.2	45	13	3030	U
EPASED15	Cf-249	0.022	0.068	0.02	NA	U
EPASED15	Cm-243/Cm-244	-0.0041	0.011	0.0024	0.0443	U
EPASED15	Cm-245/Cm-246	0.0016	0.0022	0.0011	0.0401	U
EPASED15	Cm-247/Cm-248	0.00079	0.0021	0.00079	0.0306	U
EPASED15	Co-60	0.0002	0.022	0.0066	0.028	U
EPASED15	Cs-134	0.0187	0.054	0.0074	0.0864	U
EPASED15	Cs-137	0.0642	0.015	0.0077	0.207	J
EPASED15	Eu-152	-0.012	0.044	0.013	0.0566	U
EPASED15	Eu-154	-0.0009	0.11	0.0041	0.15	U
EPASED15	Eu-155	0.079	0.033	0.013	0.231	J
EPASED15	H-3	0.066	0.066	0.021	11.9	J
EPASED15	Ho-166m	0.0335	0.029	0.0061	0.0432	J
EPASED15	K-40	21.1	0.15	0.65	32.4	J
EPASED15	Na-22	0	0.026	0.0077	0.037	U
EPASED15	Nb-94	0.0087	0.016	0.0049	0.0214	J
EPASED15	Np-236	0.005	0.034	0.01	0.047	U
EPASED15	Np-239	-0.001	0.096	0.029	0.139	U
EPASED15	Pa-231	-0.09	0.67	0.2	0.936	U
EPASED15	Pb-212	1.3	0.027	0.054	2.69	
EPASED15	Pb-214	1.12	0.03	0.038	1.7	J
EPASED15	Pu-236	-0.0011	0.0059	0.0012	7.79	U
EPASED15	Pu-238	0.0012	0.0044	0.0012	0.0415	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED15	Pu-239/Pu-240	0.0012	0.0016	0.00085	0.0404	U
EPASED15	Pu-244	0.0006	0.0016	0.0006	0.0313	U
EPASED15	Rn-220	1.1	0.027	0.096	NA	
EPASED15	Rn-222	1.07	0.03	0.054	NA	
EPASED15	Sb-125	0.109	0.043	0.01	0.354	J
EPASED15	Sn-126	0.0021	0.019	0.0056	0.0237	U
EPASED15	Sr-90	0.044	0.055	0.017	0.485	J
EPASED15	Te-125m	0.0251	0.01	0.0023	0.0838	J
EPASED15	Th-228	1.12	0.003	0.059	3.98	
EPASED15	Th-229	0.0039	0.0021	0.0018	0.145	J
EPASED15	Th-230	1.01	0.011	0.055	2.2	
EPASED15	Th-232	1.16	0.003	0.061	3.1	
EPASED15	Th-234	1.64	0.16	0.092	3.19	R
EPASED15	Tl-208	0.426	0.017	0.017	0.937	
EPASED15	Tm-171	-0.2	6.2	1.9	72.4	U
EPASED15	U-233/U-234	0.912	0.012	0.05	2.02	
EPASED15	U-235/U-236	0.0463	0.0038	0.0083	0.151	J
EPASED15	U-238	0.98	0.008	0.053	1.8	
EPASED16	Ac-227	0.354	0.16	0.017	0.217	
EPASED16	Ac-228	1.25	0.092	0.048	2.4	
EPASED16	Ag-108	-0.00304	0.0018	0.00059	NA	R
EPASED16	Ag-108m	-0.0327	0.02	0.0063	NA	R
EPASED16	Am-241	0	0.0061	0.0014	0.0454	U
EPASED16	Ba-133	-0.127	0.032	0.012	NA	R
EPASED16	Ba-137m	0.0363	0.015	0.0068	NA	J
EPASED16	Bi-212	1.06	0.15	0.091	2.15	
EPASED16	Bi-214	0.96	0.031	0.036	1.59	
EPASED16	Cd-113m	-9	49	15	3030	U
EPASED16	Cf-249	-0.111	0.083	0.026	NA	R
EPASED16	Cm-243/Cm-244	-0.00064	0.0047	0.00072	0.0443	U
EPASED16	Cm-245/Cm-246	0	0.0097	0.0024	0.0401	U
EPASED16	Cm-247/Cm-248	-0.00089	0.0065	0.00099	0.0306	U
EPASED16	Co-60	-0.0003	0.019	0.0057	0.028	U
EPASED16	Cs-134	0.0187	0.066	0.0096	0.0864	UJ
EPASED16	Cs-137	0.0384	0.016	0.0072	0.207	J
EPASED16	Eu-152	0.012	0.041	0.016	0.0566	U
EPASED16	Eu-154	-0.054	0.12	0.036	0.15	U
EPASED16	Eu-155	0.105	0.052	0.022	0.231	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED16	H-3	-0.008	0.073	0.021	11.9	U
EPASED16	Ho-166m	0.0064	0.03	0.0049	0.0432	U
EPASED16	K-40	21.6	0.14	0.66	32.4	
EPASED16	Na-22	-0.0006	0.025	0.0074	0.037	U
EPASED16	Nb-94	0.0019	0.018	0.0024	0.0214	U
EPASED16	Ni-59	0	0.014	0.0051	5.96	UL
EPASED16	Ni-63	-0.09	0.41	0.12	4.92	U
EPASED16	Np-236	-0.015	0.044	0.013	0.047	U
EPASED16	Np-239	0.03	0.099	0.03	0.139	U
EPASED16	Pa-231	-0.04	0.69	0.21	0.936	U
EPASED16	Pb-212	1.27	0.037	0.042	2.69	
EPASED16	Pb-214	1.02	0.034	0.045	1.7	
EPASED16	Pu-236	0.024	0.0033	0.0035	7.79	J
EPASED16	Pu-238	0.0013	0.0012	0.00076	0.0415	J
EPASED16	Pu-239/Pu-240	0.0017	0.0032	0.0011	0.0404	J
EPASED16	Pu-244	0	0.0012	0.00048	0.0313	U
EPASED16	Rn-220	1.16	0.04	0.1	NA	
EPASED16	Rn-222	0.989	0.031	0.057	NA	
EPASED16	Sb-125	0.147	0.046	0.013	0.354	
EPASED16	Sn-126	0.0022	0.02	0.0058	0.0237	U
EPASED16	Sr-90	0.024	0.053	0.016	0.485	U
EPASED16	Tc-99	-0.028	0.15	0.043	1.63	U
EPASED16	Te-125m	0.0339	0.011	0.0031	0.0838	J
EPASED16	Th-228	1.31	0.008	0.067	3.98	
EPASED16	Th-229	0.0098	0.0033	0.0035	0.145	J
EPASED16	Th-230	1.06	0.01	0.056	2.2	J
EPASED16	Th-232	1.22	0.003	0.063	3.1	J
EPASED16	Th-234	1.43	0.25	0.091	3.19	R
EPASED16	Tl-208	0.455	0.017	0.018	0.937	
EPASED16	Tm-171	5.7	7.8	2.9	72.4	J
EPASED16	U-233/U-234	0.79	0.005	0.041	2.02	
EPASED16	U-235/U-236	0.0421	0.0025	0.0065	0.151	J
EPASED16	U-238	0.853	0.005	0.044	1.8	J
EPASED17	Ac-227	0.051	0.17	0.037	0.217	U
EPASED17	Ac-228	1.23	0.1	0.045	2.4	J
EPASED17	Ag-108	-0.00171	0.0018	0.00055	NA	UJ
EPASED17	Ag-108m	-0.0184	0.019	0.0059	NA	UJ
EPASED17	Am-241	0.0013	0.0062	0.0017	0.0454	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED17	Ba-133	-0.0215	0.024	0.0074	NA	UJ
EPASED17	Ba-137m	0.197	0.019	0.012	NA	
EPASED17	Bi-212	1.01	0.15	0.091	2.15	J
EPASED17	Bi-214	0.963	0.034	0.037	1.59	
EPASED17	Cd-113m	-8	49	15	3030	U
EPASED17	Cf-249	0.0073	0.081	0.0049	NA	U
EPASED17	Cm-243/Cm-244	-0.0013	0.007	0.0014	0.0443	U
EPASED17	Cm-245/Cm-246	0.0023	0.0021	0.0013	0.0401	J
EPASED17	Cm-247/Cm-248	0.0015	0.0056	0.0016	0.0306	U
EPASED17	Co-60	0.00004	0.02	0.0059	0.028	U
EPASED17	Cs-134	0.0081	0.061	0.007	0.0864	U
EPASED17	Cs-137	0.208	0.02	0.013	0.207	
EPASED17	Eu-152	0.0003	0.042	0.013	0.0566	U
EPASED17	Eu-154	-0.055	0.13	0.038	0.15	U
EPASED17	Eu-155	0.068	0.036	0.014	0.231	J
EPASED17	H-3	0.046	0.067	0.02	11.9	J
EPASED17	Ho-166m	0.0072	0.031	0.0067	0.0432	U
EPASED17	K-40	22.4	0.19	0.69	32.4	J
EPASED17	Na-22	-0.0009	0.025	0.0075	0.037	U
EPASED17	Nb-94	0.0042	0.018	0.0053	0.0214	U
EPASED17	Np-236	0.006	0.036	0.011	0.047	U
EPASED17	Np-239	-0.011	0.11	0.032	0.139	U
EPASED17	Pa-231	0.23	0.68	0.21	0.936	U
EPASED17	Pb-212	1.45	0.034	0.061	2.69	
EPASED17	Pb-214	1.08	0.032	0.037	1.7	J
EPASED17	Pu-236	0.0005	0.0097	0.0028	7.79	U
EPASED17	Pu-238	0.0046	0.0048	0.0019	0.0415	J
EPASED17	Pu-239/Pu-240	0.0302	0.0014	0.0041	0.0404	J
EPASED17	Pu-244	0.00051	0.0014	0.00051	0.0313	U
EPASED17	Rn-220	1.23	0.03	0.11	NA	
EPASED17	Rn-222	1.02	0.032	0.053	NA	
EPASED17	Sb-125	0.106	0.049	0.011	0.354	J
EPASED17	Sn-126	0.0029	0.019	0.0058	0.0237	U
EPASED17	Sr-90	0.005	0.056	0.016	0.485	U
EPASED17	Te-125m	0.0245	0.011	0.0026	0.0838	J
EPASED17	Th-228	1.11	0.012	0.056	3.98	
EPASED17	Th-229	0.0074	0.0019	0.0023	0.145	J
EPASED17	Th-230	0.796	0.002	0.043	2.2	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED17	Th-232	1.1	0.002	0.056	3.1	
EPASED17	Th-234	0.35	0.19	0.061	3.19	J R
EPASED17	Tl-208	0.457	0.021	0.019	0.937	
EPASED17	Tm-171	-2.8	6.2	1.9	72.4	U
EPASED17	U-233/U-234	0.837	0.001	0.041	2.02	
EPASED17	U-235/U-236	0.0366	0.005	0.0053	0.151	J
EPASED17	U-238	0.813	0.001	0.04	1.8	
EPASED18	Ac-227	0.05	0.14	0.016	0.217	U
EPASED18	Ac-228	1.31	0.071	0.043	2.4	
EPASED18	Ag-108	-0.00111	0.0013	0.00041	NA	UL
EPASED18	Ag-108m	-0.012	0.014	0.0044	NA	UL
EPASED18	Am-241	0.0042	0.0065	0.0023	0.0454	J
EPASED18	Ba-133	-0.0492	0.019	0.0061	NA	R
EPASED18	Ba-137m	0.0541	0.011	0.0053	NA	J
EPASED18	Bi-212	1.06	0.12	0.077	2.15	
EPASED18	Bi-214	0.968	0.025	0.034	1.59	
EPASED18	Cd-113m	-7	39	12	3030	U
EPASED18	Cf-249	0.0007	0.062	0.019	NA	U
EPASED18	Cm-243/Cm-244	0.00069	0.0019	0.00069	0.0443	U
EPASED18	Cm-245/Cm-246	0.0128	0.0099	0.0042	0.0401	J
EPASED18	Cm-247/Cm-248	0	0.0066	0.0013	0.0306	U
EPASED18	Co-60	-0.0002	0.016	0.0046	0.028	U
EPASED18	Cs-134	0.0157	0.043	0.0048	0.0864	UJ
EPASED18	Cs-137	0.0572	0.012	0.0056	0.207	J
EPASED18	Eu-152	0.019	0.037	0.013	0.0566	J
EPASED18	Eu-154	-0.021	0.095	0.028	0.15	U
EPASED18	Eu-155	0.083	0.034	0.014	0.231	J
EPASED18	H-3	0.065	0.069	0.022	11.9	J
EPASED18	Ho-166m	0.0374	0.023	0.0049	0.0432	J
EPASED18	K-40	23.9	0.15	0.71	32.4	
EPASED18	Na-22	-0.0001	0.022	0.0064	0.037	U
EPASED18	Nb-94	0.0079	0.014	0.0042	0.0214	J
EPASED18	Ni-59	0	0.015	0.018	5.96	UL
EPASED18	Ni-63	-0.08	0.47	0.14	4.92	U
EPASED18	Np-236	-0.0168	0.031	0.0095	0.047	UL
EPASED18	Np-239	-0.009	0.087	0.026	0.139	U
EPASED18	Pa-231	0.03	0.55	0.17	0.936	U
EPASED18	Pb-212	1.64	0.023	0.066	2.69	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED18	Pb-214	1.09	0.026	0.036	1.7	
EPASED18	Pu-236	0.01	0.0041	0.0025	7.79	J
EPASED18	Pu-238	0.0014	0.0051	0.0014	0.0415	U
EPASED18	Pu-239/Pu-240	0.0041	0.0019	0.0017	0.0404	J
EPASED18	Pu-244	0.00069	0.0019	0.00069	0.0313	U
EPASED18	Rn-220	1.35	0.02	0.1	NA	
EPASED18	Rn-222	1.03	0.025	0.049	NA	
EPASED18	Sb-125	0.146	0.036	0.011	0.354	
EPASED18	Sn-126	0.0003	0.014	0.0042	0.0237	U
EPASED18	Sr-90	0.044	0.054	0.017	0.485	J
EPASED18	Tc-99	0.09	0.19	0.056	1.63	
EPASED18	Te-125m	0.0338	0.0084	0.0026	0.0838	J
EPASED18	Th-228	1.2	0.013	0.06	3.98	
EPASED18	Th-229	0.005	0.0075	0.0027	0.145	J
EPASED18	Th-230	0.825	0.006	0.044	2.2	J
EPASED18	Th-232	1.2	0.002	0.06	3.1	J
EPASED18	Th-234	1.68	0.16	0.093	3.19	R
EPASED18	Tl-208	0.497	0.016	0.018	0.937	
EPASED18	Tm-171	-0.02	6.2	1.9	72.4	U
EPASED18	U-233/U-234	0.833	0.005	0.042	2.02	
EPASED18	U-235/U-236	0.032	0.0021	0.0052	0.151	J
EPASED18	U-238	0.914	0.002	0.045	1.8	J
EPASED19	Ac-227	0.029	0.088	0.028	0.217	U
EPASED19	Ac-228	1.23	0.073	0.043	2.4	J
EPASED19	Ag-108	-0.00155	0.0015	0.00046	NA	R
EPASED19	Ag-108m	-0.0167	0.016	0.0049	NA	R
EPASED19	Am-241	0	0.0081	0.0016	0.0454	U
EPASED19	Ba-133	-0.0614	0.019	0.0066	NA	R
EPASED19	Ba-137m	0.178	0.013	0.009	NA	
EPASED19	Bi-212	1.01	0.13	0.077	2.15	J
EPASED19	Bi-214	0.966	0.027	0.034	1.59	
EPASED19	Cd-113m	-14	42	13	3030	U
EPASED19	Cf-249	0.0044	0.065	0.0041	NA	U
EPASED19	Cm-243/Cm-244	-0.0011	0.014	0.0034	0.0443	U
EPASED19	Cm-245/Cm-246	0.001	0.012	0.003	0.0401	U
EPASED19	Cm-247/Cm-248	0.0019	0.0025	0.0013	0.0306	U
EPASED19	Co-60	0	0.019	0.0035	0.028	U
EPASED19	Cs-134	0.0025	0.048	0.0022	0.0864	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED19	Cs-137	0.188	0.014	0.0095	0.207	
EPASED19	Eu-152	-0.019	0.039	0.012	0.0566	U
EPASED19	Eu-154	0.012	0.088	0.018	0.15	U
EPASED19	Eu-155	0.078	0.036	0.015	0.231	J
EPASED19	H-3	0.038	0.066	0.02	11.9	J
EPASED19	Ho-166m	0.0309	0.025	0.0046	0.0432	J
EPASED19	K-40	18.9	0.16	0.58	32.4	J
EPASED19	Na-22	-0.002	0.022	0.0064	0.037	U
EPASED19	Nb-94	0.0002	0.014	0.0042	0.0214	U
EPASED19	Np-236	-0.0033	0.027	0.008	0.047	U
EPASED19	Np-239	-0.0005	0.086	0.026	0.139	U
EPASED19	Pa-231	-0.13	0.59	0.18	0.936	U
EPASED19	Pb-212	1.43	0.022	0.043	2.69	
EPASED19	Pb-214	0.987	0.027	0.042	1.7	J
EPASED19	Pu-236	0.001	0.0039	0.0011	7.79	U
EPASED19	Pu-238	0.0029	0.01	0.003	0.0415	U
EPASED19	Pu-239/Pu-240	0.0058	0.0071	0.0028	0.0404	J
EPASED19	Pu-244	0	0.0026	0.0011	0.0313	U
EPASED19	Rn-220	1.22	0.022	0.088	NA	
EPASED19	Rn-222	0.977	0.027	0.054	NA	
EPASED19	Sb-125	0.127	0.04	0.0096	0.354	J
EPASED19	Sn-126	0.0015	0.015	0.0046	0.0237	U
EPASED19	Sr-90	0.185	0.06	0.024	0.485	J
EPASED19	Te-125m	0.0294	0.0093	0.0022	0.0838	J
EPASED19	Th-228	1.3	0.011	0.065	3.98	
EPASED19	Th-229	0.005	0.0027	0.0023	0.145	J
EPASED19	Th-230	0.98	0.01	0.051	2.2	
EPASED19	Th-232	1.15	0.007	0.058	3.1	
EPASED19	Th-234	1.76	0.16	0.09	3.19	R
EPASED19	Tl-208	0.483	0.015	0.018	0.937	
EPASED19	Tm-171	-3.3	5.4	1.7	72.4	UL
EPASED19	U-233/U-234	1.23	0.009	0.063	2.02	
EPASED19	U-235/U-236	0.0649	0.0034	0.0095	0.151	J
EPASED19	U-238	1.2	0.008	0.062	1.8	
EPASED20	Ac-227	-0.04	0.18	0.054	0.217	U
EPASED20	Ac-228	1.05	0.096	0.043	2.4	J
EPASED20	Ag-108	-0.00478	0.0019	0.00064	NA	R
EPASED20	Ag-108m	-0.0514	0.021	0.0069	NA	R

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED20	Am-241	0.0009	0.0087	0.0022	0.0454	U
EPASED20	Ba-133	-0.101	0.031	0.011	NA	R
EPASED20	Ba-137m	0.0573	0.015	0.0072	NA	J
EPASED20	Bi-212	0.902	0.14	0.08	2.15	J
EPASED20	Bi-214	0.813	0.028	0.031	1.59	
EPASED20	Cd-113m	0.9	47	14	3030	U
EPASED20	Cf-249	0.075	0.06	0.026	NA	J
EPASED20	Cm-243/Cm-244	0	0.0025	0.001	0.0443	U
EPASED20	Cm-245/Cm-246	0.0018	0.0068	0.0019	0.0401	U
EPASED20	Cm-247/Cm-248	0.0018	0.0024	0.0013	0.0306	U
EPASED20	Co-60	-0.0014	0.018	0.0052	0.028	U
EPASED20	Cs-134	0.012	0.068	0.0087	0.0864	U
EPASED20	Cs-137	0.0606	0.016	0.0077	0.207	J
EPASED20	Eu-152	0.008	0.049	0.0055	0.0566	U
EPASED20	Eu-154	0.032	0.063	0.019	0.15	J
EPASED20	Eu-155	0.099	0.047	0.019	0.231	J
EPASED20	H-3	-0.007	0.076	0.02	11.9	K
EPASED20	Ho-166m	-0.0025	0.031	0.0038	0.0432	U
EPASED20	K-40	22.8	0.14	0.7	32.4	J
EPASED20	Na-22	0	0.027	0.008	0.037	U
EPASED20	Nb-94	0.0036	0.016	0.0049	0.0214	U
EPASED20	Np-236	-0.01	0.041	0.012	0.047	U
EPASED20	Np-239	0.022	0.11	0.032	0.139	U
EPASED20	Pa-231	0.12	0.59	0.14	0.936	U
EPASED20	Pb-212	1.15	0.038	0.039	2.69	
EPASED20	Pb-214	0.911	0.032	0.041	1.7	J
EPASED20	Pu-236	-0.0027	0.0067	0.0014	7.79	U
EPASED20	Pu-238	0.0006	0.0052	0.0013	0.0415	U
EPASED20	Pu-239/Pu-240	0.0034	0.0042	0.0016	0.0404	J
EPASED20	Pu-244	0.00112	0.0015	0.0008	0.0313	U
EPASED20	Rn-220	1.02	0.038	0.089	NA	
EPASED20	Rn-222	0.862	0.028	0.051	NA	
EPASED20	Sb-125	0.108	0.052	0.013	0.354	J
EPASED20	Sn-126	0.0055	0.019	0.0057	0.0237	U
EPASED20	Sr-90	0.075	0.068	0.022	0.485	J
EPASED20	Te-125m	0.0249	0.012	0.0031	0.0838	J
EPASED20	Th-228	0.966	0.012	0.052	3.98	
EPASED20	Th-229	0.005	0.0052	0.0022	0.145	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED20	Th-230	0.74	0.003	0.042	2.2	
EPASED20	Th-232	0.912	0.008	0.05	3.1	
EPASED20	Th-234	1.12	0.25	0.085	3.19	R
EPASED20	Tl-208	0.416	0.019	0.018	0.937	
EPASED20	Tm-171	-8.5	11	3.2	72.4	UL
EPASED20	U-233/U-234	0.688	0.012	0.04	2.02	
EPASED20	U-235/U-236	0.0349	0.01	0.0074	0.151	J
EPASED20	U-238	0.698	0.003	0.04	1.8	
EPASED21	Ac-227	0.006	0.16	0.054	0.217	U
EPASED21	Ac-228	1.09	0.11	0.043	2.4	
EPASED21	Ag-108	-0.00145	0.0018	0.00054	NA	UL
EPASED21	Ag-108m	-0.0156	0.019	0.0058	NA	UL
EPASED21	Am-241	0.00133	0.0018	0.00094	0.0454	U
EPASED21	Ba-133	-0.0223	0.021	0.0066	NA	R
EPASED21	Ba-137m	0.0389	0.013	0.0057	NA	J
EPASED21	Bi-212	0.934	0.15	0.085	2.15	
EPASED21	Bi-214	0.956	0.034	0.037	1.59	
EPASED21	Cd-113m	8	46	14	3030	U
EPASED21	Cf-249	-0.022	0.067	0.02	NA	U
EPASED21	Cm-243/Cm-244	0	0.0048	0.00098	0.0443	U
EPASED21	Cm-245/Cm-246	0.0107	0.0029	0.0034	0.0401	J
EPASED21	Cm-247/Cm-248	-0.0011	0.0077	0.0012	0.0306	U
EPASED21	Co-60	0.0014	0.022	0.0064	0.028	U
EPASED21	Cs-134	0.008	0.057	0.0047	0.0864	UJ
EPASED21	Cs-137	0.0412	0.013	0.006	0.207	J
EPASED21	Eu-152	0.026	0.043	0.014	0.0566	J
EPASED21	Eu-154	0.028	0.12	0.036	0.15	U
EPASED21	Eu-155	0.022	0.039	0.012	0.231	J
EPASED21	H-3	0.004	0.071	0.021	11.9	U
EPASED21	Ho-166m	0.0146	0.027	0.0058	0.0432	J
EPASED21	K-40	25.2	0.19	0.77	32.4	
EPASED21	Na-22	-0.0111	0.03	0.0091	0.037	U
EPASED21	Nb-94	0.0093	0.016	0.005	0.0214	J
EPASED21	Ni-59	0	0.015	0.013	5.96	UL
EPASED21	Ni-63	-0.12	0.47	0.14	4.92	U
EPASED21	Np-236	0.0008	0.036	0.011	0.047	U
EPASED21	Np-239	-0.008	0.096	0.029	0.139	U
EPASED21	Pa-231	-0.02	0.6	0.18	0.936	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED21	Pb-212	1.17	0.031	0.038	2.69	
EPASED21	Pb-214	1.03	0.032	0.045	1.7	
EPASED21	Pu-236	0.0118	0.0044	0.0026	7.79	J
EPASED21	Pu-238	0.0028	0.0025	0.0016	0.0415	J
EPASED21	Pu-239/Pu-240	0.00092	0.0025	0.00092	0.0404	U
EPASED21	Pu-244	-0.0009	0.0068	0.001	0.0313	U
EPASED21	Rn-220	1.05	0.031	0.093	NA	
EPASED21	Rn-222	0.992	0.032	0.058	NA	J
EPASED21	Sb-125	0.0938	0.048	0.0099	0.354	
EPASED21	Sn-126	0	0.02	0.0048	0.0237	U
EPASED21	Sr-90	-0.009	0.053	0.015	0.485	U
EPASED21	Tc-99	0.138	0.19	0.058	1.63	
EPASED21	Te-125m	0.0217	0.011	0.0023	0.0838	J
EPASED21	Th-228	0.958	0.01	0.05	3.98	J
EPASED21	Th-229	0.0054	0.003	0.0024	0.145	J
EPASED21	Th-230	0.833	0.01	0.044	2.2	J
EPASED21	Th-232	0.936	0.006	0.049	3.1	J
EPASED21	Th-234	0.234	0.26	0.034	3.19	J R
EPASED21	Tl-208	0.392	0.018	0.016	0.937	
EPASED21	Tm-171	-4	6.8	2.1	72.4	UL
EPASED21	U-233/U-234	0.709	0.008	0.039	2.02	
EPASED21	U-235/U-236	0.0357	0.0077	0.0065	0.151	J
EPASED21	U-238	0.81	0.002	0.043	1.8	J
EPASED22	Ac-227	0.06	0.17	0.052	0.217	U
EPASED22	Ac-228	1.21	0.1	0.048	2.4	
EPASED22	Ag-108	-0.00167	0.0018	0.00054	NA	UL
EPASED22	Ag-108m	-0.0179	0.019	0.0059	NA	UL
EPASED22	Am-241	0	0.0051	0.0012	0.0454	U
EPASED22	Ba-133	-0.1	0.029	0.0097	NA	R
EPASED22	Ba-137m	0.101	0.014	0.008	NA	J
EPASED22	Bi-212	0.889	0.14	0.079	2.15	
EPASED22	Bi-214	0.984	0.035	0.038	1.59	
EPASED22	Cd-113m	-0.4	43	13	3030	U
EPASED22	Cf-249	-0.014	0.079	0.024	NA	U
EPASED22	Cm-243/Cm-244	0.0018	0.0034	0.0012	0.0443	J
EPASED22	Cm-245/Cm-246	0.007	0.0057	0.0026	0.0401	J
EPASED22	Cm-247/Cm-248	0.0023	0.0021	0.0013	0.0306	J
EPASED22	Co-60	0.0065	0.023	0.0055	0.028	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED22	Cs-134	-0.002	0.061	0.018	0.0864	UJ
EPASED22	Cs-137	0.107	0.015	0.0085	0.207	
EPASED22	Eu-152	-0.012	0.048	0.014	0.0566	U
EPASED22	Eu-154	-0.032	0.12	0.037	0.15	U
EPASED22	Eu-155	0.105	0.038	0.016	0.231	J
EPASED22	H-3	0.007	0.072	0.021	11.9	U
EPASED22	Ho-166m	0.008	0.03	0.011	0.0432	U
EPASED22	K-40	22.4	0.15	0.69	32.4	
EPASED22	Na-22	0.0019	0.026	0.0078	0.037	U
EPASED22	Nb-94	0.0026	0.017	0.0034	0.0214	U
EPASED22	Ni-59	0	0.014	0.0052	5.96	UL
EPASED22	Ni-63	0.003	0.4	0.12	4.92	U
EPASED22	Np-236	-0.007	0.032	0.0095	0.047	U
EPASED22	Np-239	0.002	0.1	0.031	0.139	U
EPASED22	Pa-231	-0.13	0.72	0.22	0.936	U
EPASED22	Pb-212	1.49	0.026	0.061	2.69	
EPASED22	Pb-214	1.1	0.033	0.038	1.7	
EPASED22	Pu-236	0.00157	0.0014	0.00091	7.79	J
EPASED22	Pu-238	0.00137	0.0019	0.00097	0.0415	U
EPASED22	Pu-239/Pu-240	0.0041	0.0019	0.0017	0.0404	J
EPASED22	Pu-244	0	0.0018	0.00076	0.0313	U
EPASED22	Rn-220	1.19	0.026	0.099	NA	
EPASED22	Rn-222	1.04	0.033	0.054	NA	
EPASED22	Sb-125	0.148	0.049	0.014	0.354	
EPASED22	Sn-126	-0.0003	0.021	0.0062	0.0237	U
EPASED22	Sr-90	0.051	0.059	0.019	0.485	J
EPASED22	Tc-99	0.035	0.2	0.06	1.63	U
EPASED22	Te-125m	0.0343	0.011	0.0033	0.0838	J
EPASED22	Th-228	1.05	0.008	0.056	3.98	
EPASED22	Th-229	0.0072	0.0075	0.0031	0.145	J
EPASED22	Th-230	0.843	0.003	0.047	2.2	J
EPASED22	Th-232	1.07	0.008	0.057	3.1	J
EPASED22	Th-234	1.65	0.18	0.099	3.19	R
EPASED22	Tl-208	0.454	0.019	0.018	0.937	
EPASED22	Tm-171	-2.5	6.1	1.9	72.4	U
EPASED22	U-233/U-234	0.794	0.004	0.04	2.02	
EPASED22	U-235/U-236	0.0454	0.0053	0.0061	0.151	J
EPASED22	U-238	0.801	0.002	0.04	1.8	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED23	Ac-227	0.08	0.14	0.043	0.217	J
EPASED23	Ac-228	1.21	0.089	0.044	2.4	
EPASED23	Ag-108	0.00007	0.0016	0.000073	NA	U
EPASED23	Ag-108m	0.00075	0.017	0.00078	NA	U
EPASED23	Am-241	0.0044	0.0051	0.002	0.0454	J
EPASED23	Ba-133	0.0205	0.021	0.0035	NA	J
EPASED23	Ba-137m	0.0765	0.015	0.0074	NA	J
EPASED23	Bi-212	1.01	0.16	0.091	2.15	
EPASED23	Bi-214	1.1	0.031	0.04	1.59	
EPASED23	Cd-113m	-14	46	14	3030	U
EPASED23	Cf-249	0.04	0.071	0.022	NA	J
EPASED23	Cm-243/Cm-244	0.0005	0.0051	0.0013	0.0443	U
EPASED23	Cm-245/Cm-246	0.0029	0.0071	0.0022	0.0401	J
EPASED23	Cm-247/Cm-248	0	0.0026	0.0011	0.0306	U
EPASED23	Co-60	-0.0073	0.023	0.0069	0.028	U
EPASED23	Cs-134	0.001	0.038	0.011	0.0864	UJ
EPASED23	Cs-137	0.0809	0.016	0.0078	0.207	
EPASED23	Eu-152	-0.00077	0.045	0.0009	0.0566	U
EPASED23	Eu-154	0.0007	0.11	0.0026	0.15	U
EPASED23	Eu-155	0.079	0.038	0.015	0.231	J
EPASED23	H-3	0.011	0.076	0.022	11.9	U
EPASED23	Ho-166m	0.0402	0.027	0.0056	0.0432	J
EPASED23	K-40	22.1	0.18	0.68	32.4	
EPASED23	Na-22	0.0012	0.022	0.0063	0.037	U
EPASED23	Nb-94	0.0007	0.019	0.0039	0.0214	U
EPASED23	Ni-59	0	0.018	0.0065	5.96	UL
EPASED23	Ni-63	0.07	0.52	0.15	4.92	U
EPASED23	Np-236	0.001	0.035	0.011	0.047	U
EPASED23	Np-239	0.009	0.1	0.031	0.139	U
EPASED23	Pa-231	0.25	0.45	0.15	0.936	
EPASED23	Pb-212	1.48	0.029	0.061	2.69	
EPASED23	Pb-214	1.17	0.032	0.04	1.7	
EPASED23	Pu-236	-0.00089	0.0041	0.0007	7.79	U
EPASED23	Pu-238	0.0036	0.0068	0.0022	0.0415	J
EPASED23	Pu-239/Pu-240	0.0022	0.0054	0.0017	0.0404	J
EPASED23	Pu-244	0	0.002	0.00081	0.0313	U
EPASED23	Rn-220	1.24	0.03	0.11	NA	
EPASED23	Rn-222	1.14	0.031	0.056	NA	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED23	Sb-125	0.123	0.05	0.011	0.354	
EPASED23	Sn-126	-0.009	0.021	0.0063	0.0237	U
EPASED23	Sr-90	0.023	0.062	0.019	0.485	U
EPASED23	Tc-99	-0.069	0.17	0.049	1.63	U
EPASED23	Te-125m	0.0284	0.012	0.0026	0.0838	J
EPASED23	Th-228	1.06	0.005	0.058	3.98	
EPASED23	Th-229	0.0071	0.0074	0.0031	0.145	J
EPASED23	Th-230	0.903	0.004	0.051	2.2	J
EPASED23	Th-232	1.06	0.004	0.058	3.1	J
EPASED23	Th-234	0.501	0.18	0.059	3.19	J R
EPASED23	Tl-208	0.495	0.018	0.019	0.937	
EPASED23	Tm-171	-2.6	6.7	2	72.4	U
EPASED23	U-233/U-234	0.772	0.001	0.037	2.02	
EPASED23	U-235/U-236	0.0375	0.0015	0.0049	0.151	J
EPASED23	U-238	0.812	0.001	0.039	1.8	J
EPASED24	Ac-227	0.064	0.17	0.078	0.217	U
EPASED24	Ac-228	1.37	0.11	0.051	2.4	
EPASED24	Ag-108	-0.00002	0.0016	0.00047	NA	U
EPASED24	Ag-108m	-0.0002	0.017	0.0051	NA	U
EPASED24	Am-241	0.0059	0.004	0.002	0.0454	J
EPASED24	Ba-133	-0.0212	0.02	0.0063	NA	R
EPASED24	Ba-137m	0.0911	0.015	0.0078	NA	J
EPASED24	Bi-212	1.12	0.15	0.092	2.15	
EPASED24	Bi-214	1.1	0.034	0.04	1.59	
EPASED24	Cd-113m	5	47	14	3030	U
EPASED24	Cf-249	0.0209	0.076	0.0057	NA	U
EPASED24	Cm-243/Cm-244	-0.0021	0.01	0.0027	0.0443	U
EPASED24	Cm-245/Cm-246	0.01	0.003	0.0034	0.0401	J
EPASED24	Cm-247/Cm-248	0.0033	0.003	0.0019	0.0306	J
EPASED24	Co-60	0.00058	0.023	0.00052	0.028	U
EPASED24	Cs-134	0.0187	0.015	0.0067	0.0864	J
EPASED24	Cs-137	0.0963	0.015	0.0083	0.207	
EPASED24	Eu-152	-0.007	0.046	0.014	0.0566	U
EPASED24	Eu-154	0.013	0.091	0.015	0.15	U
EPASED24	Eu-155	0.074	0.038	0.015	0.231	J
EPASED24	H-3	0.054	0.059	0.019	11.9	J
EPASED24	Ho-166m	0.0078	0.03	0.0091	0.0432	U
EPASED24	K-40	20.9	0.16	0.65	32.4	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED24	Na-22	-0.0032	0.028	0.0082	0.037	U
EPASED24	Nb-94	0.0067	0.017	0.0052	0.0214	U
EPASED24	Ni-59	0	0.013	0.0049	5.96	UL
EPASED24	Ni-63	-0.07	0.4	0.12	4.92	U
EPASED24	Np-236	-0.01	0.037	0.011	0.047	U
EPASED24	Np-239	-0.006	0.077	0.023	0.139	U
EPASED24	Pa-231	-0.05	0.7	0.21	0.936	U
EPASED24	Pb-212	1.65	0.026	0.067	2.69	
EPASED24	Pb-214	1.17	0.033	0.041	1.7	
EPASED24	Pu-236	-0.00135	0.0048	0.00087	7.79	U
EPASED24	Pu-238	0.0032	0.006	0.002	0.0415	J
EPASED24	Pu-239/Pu-240	0.0016	0.0022	0.0012	0.0404	U
EPASED24	Pu-244	0	0.006	0.0012	0.0313	U
EPASED24	Rn-220	1.38	0.03	0.11	NA	
EPASED24	Rn-222	1.13	0.033	0.058	NA	
EPASED24	Sb-125	0.137	0.049	0.011	0.354	
EPASED24	Sn-126	-0.0012	0.021	0.0061	0.0237	U
EPASED24	Sr-90	0.006	0.06	0.018	0.485	U
EPASED24	Tc-99	0.035	0.2	0.058	1.63	U
EPASED24	Te-125m	0.0317	0.011	0.0026	0.0838	J
EPASED24	Th-228	1.22	0.009	0.064	3.98	
EPASED24	Th-229	0.00007	0.012	0.0029	0.145	U
EPASED24	Th-230	0.888	0.009	0.049	2.2	J
EPASED24	Th-232	1.16	0.009	0.061	3.1	J
EPASED24	Th-234	0.765	0.17	0.062	3.19	J R
EPASED24	Tl-208	0.482	0.021	0.02	0.937	
EPASED24	Tm-171	-1.9	5.9	1.8	72.4	U
EPASED24	U-233/U-234	0.867	0.003	0.041	2.02	
EPASED24	U-235/U-236	0.0466	0.0038	0.0053	0.151	J
EPASED24	U-238	0.855	0.001	0.04	1.8	J
EPASED25	Ac-227	0.04	0.16	0.049	0.217	U
EPASED25	Ac-228	1.26	0.12	0.05	2.4	J
EPASED25	Ag-108	-0.00413	0.002	0.00064	NA	R
EPASED25	Ag-108m	-0.0444	0.021	0.0069	NA	R
EPASED25	Am-241	-0.0035	0.016	0.004	0.0454	U
EPASED25	Ba-133	-0.0253	0.024	0.0074	NA	R
EPASED25	Ba-137m	0.1	0.016	0.0089	NA	J
EPASED25	Bi-212	1	0.14	0.083	2.15	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED25	Bi-214	1.03	0.029	0.037	1.59	
EPASED25	Cd-113m	-4	47	14	3030	U
EPASED25	Cf-249	0.034	0.073	0.022	NA	U
EPASED25	Cm-243/Cm-244	-0.0086	0.02	0.0049	0.0443	U
EPASED25	Cm-245/Cm-246	0.0023	0.011	0.0029	0.0401	U
EPASED25	Cm-247/Cm-248	0	0.003	0.0013	0.0306	U
EPASED25	Co-60	0.0023	0.025	0.0034	0.028	U
EPASED25	Cs-134	0.0282	0.01	0.0037	0.0864	J
EPASED25	Cs-137	0.106	0.017	0.0094	0.207	
EPASED25	Eu-152	-0.004	0.047	0.014	0.0566	U
EPASED25	Eu-154	0.0062	0.14	0.0083	0.15	U
EPASED25	Eu-155	0.067	0.036	0.014	0.231	J
EPASED25	H-3	0.013	0.062	0.018	11.9	K
EPASED25	Ho-166m	0.012	0.031	0.012	0.0432	U
EPASED25	K-40	22	0.17	0.68	32.4	J
EPASED25	Na-22	-0.0052	0.028	0.0085	0.037	U
EPASED25	Nb-94	0.0068	0.018	0.0037	0.0214	U
EPASED25	Np-236	-0.011	0.036	0.011	0.047	U
EPASED25	Np-239	-0.022	0.1	0.032	0.139	U
EPASED25	Pa-231	-0.06	0.74	0.22	0.936	U
EPASED25	Pb-212	1.44	0.029	0.06	2.69	
EPASED25	Pb-214	1.14	0.034	0.039	1.7	J
EPASED25	Pu-236	-0.00055	0.004	0.00061	7.79	U
EPASED25	Pu-238	0.0006	0.0067	0.0018	0.0415	U
EPASED25	Pu-239/Pu-240	0.0061	0.0015	0.0019	0.0404	J
EPASED25	Pu-244	0.00111	0.0015	0.00079	0.0313	U
EPASED25	Rn-220	1.22	0.03	0.1	NA	
EPASED25	Rn-222	1.09	0.029	0.054	NA	
EPASED25	Sb-125	0.107	0.049	0.01	0.354	J
EPASED25	Sn-126	0.0017	0.018	0.0054	0.0237	U
EPASED25	Sr-90	0.022	0.056	0.017	0.485	U
EPASED25	Te-125m	0.0247	0.011	0.0024	0.0838	J
EPASED25	Th-228	1.18	0.009	0.06	3.98	
EPASED25	Th-229	0.0018	0.0068	0.0019	0.145	U
EPASED25	Th-230	0.987	0.012	0.052	2.2	
EPASED25	Th-232	1.18	0.003	0.06	3.1	
EPASED25	Th-234	0.426	0.19	0.06	3.19	J R
EPASED25	Tl-208	0.466	0.02	0.019	0.937	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED25	Tm-171	-0.2	6.8	2.1	72.4	U
EPASED25	U-233/U-234	0.819	0.011	0.045	2.02	
EPASED25	U-235/U-236	0.037	0.0033	0.0069	0.151	J
EPASED25	U-238	0.873	0.003	0.047	1.8	
EPASED26	Ac-227	0.05	0.15	0.06	0.217	U
EPASED26	Ac-228	1.52	0.076	0.056	2.4	J
EPASED26	Ag-108	-0.00175	0.0014	0.00045	NA	R
EPASED26	Ag-108m	-0.0189	0.015	0.0048	NA	R
EPASED26	Am-241	0.0018	0.0099	0.0027	0.0454	U
EPASED26	Ba-133	-0.0668	0.02	0.0069	NA	R
EPASED26	Ba-137m	0.0782	0.014	0.0074	NA	J
EPASED26	Bi-212	1.14	0.14	0.089	2.15	
EPASED26	Bi-214	1.14	0.028	0.039	1.59	
EPASED26	Cd-113m	-0.7	35	11	3030	U
EPASED26	Cf-249	0.026	0.064	0.019	NA	U
EPASED26	Cm-243/Cm-244	0.0036	0.0084	0.0026	0.0443	J
EPASED26	Cm-245/Cm-246	-0.0018	0.0083	0.0014	0.0401	U
EPASED26	Cm-247/Cm-248	0.0026	0.0024	0.0015	0.0306	J
EPASED26	Co-60	-0.0017	0.018	0.0053	0.028	U
EPASED26	Cs-134	0.0096	0.05	0.0033	0.0864	U
EPASED26	Cs-137	0.0827	0.014	0.0078	0.207	
EPASED26	Eu-152	0.015	0.041	0.013	0.0566	U
EPASED26	Eu-154	-0.0056	0.1	0.0045	0.15	U
EPASED26	Eu-155	0.093	0.037	0.015	0.231	J
EPASED26	H-3	0.041	0.063	0.019	11.9	J
EPASED26	Ho-166m	0.0127	0.025	0.0096	0.0432	J
EPASED26	K-40	24	0.17	0.72	32.4	J
EPASED26	Na-22	0	0.027	0.0067	0.037	U
EPASED26	Nb-94	0.0135	0.011	0.0048	0.0214	J
EPASED26	Np-236	-0.004	0.034	0.01	0.047	U
EPASED26	Np-239	-0.017	0.093	0.028	0.139	U
EPASED26	Pa-231	0.08	0.62	0.19	0.936	U
EPASED26	Pb-212	1.8	0.026	0.073	2.69	
EPASED26	Pb-214	1.32	0.028	0.044	1.7	J
EPASED26	Pu-236	-0.0016	0.011	0.0031	7.79	U
EPASED26	Pu-238	0.0017	0.0053	0.0016	0.0415	U
EPASED26	Pu-239/Pu-240	0.004	0.0042	0.0017	0.0404	J
EPASED26	Pu-244	0.00057	0.0015	0.00057	0.0313	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED26	Rn-220	1.47	0.03	0.12	NA	
EPASED26	Rn-222	1.23	0.028	0.059	NA	
EPASED26	Sb-125	0.146	0.042	0.011	0.354	J
EPASED26	Sn-126	0.0079	0.012	0.0038	0.0237	J
EPASED26	Sr-90	0.006	0.054	0.016	0.485	U
EPASED26	Te-125m	0.0337	0.0096	0.0026	0.0838	J
EPASED26	Th-228	1.33	0.012	0.067	3.98	
EPASED26	Th-229	0.0038	0.0071	0.0024	0.145	J
EPASED26	Th-230	0.969	0.011	0.052	2.2	
EPASED26	Th-232	1.27	0.003	0.065	3.1	
EPASED26	Th-234	1.91	0.17	0.1	3.19	R
EPASED26	Tl-208	0.547	0.017	0.02	0.937	
EPASED26	Tm-171	1.4	4.6	1.4	72.4	U
EPASED26	U-233/U-234	0.905	0.002	0.047	2.02	K
EPASED26	U-235/U-236	0.0485	0.0029	0.0074	0.151	J
EPASED26	U-238	0.919	0.002	0.048	1.8	K
EPASED27	Ac-227	0.048	0.17	0.051	0.217	U
EPASED27	Ac-228	1.15	0.11	0.045	2.4	J
EPASED27	Ag-108	-0.00191	0.0017	0.00052	NA	R
EPASED27	Ag-108m	-0.0206	0.018	0.0056	NA	R
EPASED27	Am-241	0	0.01	0.0025	0.0454	U
EPASED27	Ba-133	-0.0237	0.022	0.0069	NA	R
EPASED27	Ba-137m	0.0578	0.013	0.0065	NA	J
EPASED27	Bi-212	1.02	0.16	0.1	2.15	J
EPASED27	Bi-214	0.997	0.028	0.036	1.59	
EPASED27	Cd-113m	1	47	14	3030	U
EPASED27	Cf-249	0.027	0.065	0.02	NA	U
EPASED27	Cm-243/Cm-244	0	0.0088	0.0021	0.0443	U
EPASED27	Cm-245/Cm-246	0.0025	0.0023	0.0015	0.0401	J
EPASED27	Cm-247/Cm-248	0	0.0061	0.0012	0.0306	U
EPASED27	Co-60	0.001	0.021	0.0052	0.028	U
EPASED27	Cs-134	0.01	0.057	0.017	0.0864	U
EPASED27	Cs-137	0.0611	0.014	0.0068	0.207	J
EPASED27	Eu-152	0.0078	0.042	0.0054	0.0566	U
EPASED27	Eu-154	-0.043	0.12	0.037	0.15	U
EPASED27	Eu-155	0.047	0.034	0.011	0.231	J
EPASED27	H-3	0.024	0.063	0.019	11.9	K
EPASED27	Ho-166m	-0.0007	0.03	0.0089	0.0432	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED27	K-40	21.8	0.18	0.67	32.4	J
EPASED27	Na-22	0.0038	0.027	0.0079	0.037	U
EPASED27	Nb-94	0.0034	0.017	0.0035	0.0214	U
EPASED27	Np-236	0.0006	0.036	0.011	0.047	U
EPASED27	Np-239	-0.009	0.097	0.029	0.139	U
EPASED27	Pa-231	0.01	0.68	0.2	0.936	U
EPASED27	Pb-212	1.44	0.025	0.059	2.69	
EPASED27	Pb-214	1.11	0.033	0.039	1.7	J
EPASED27	Pu-236	-0.0025	0.011	0.0028	7.79	U
EPASED27	Pu-238	-0.0012	0.0062	0.0013	0.0415	U
EPASED27	Pu-239/Pu-240	0.0058	0.0016	0.0018	0.0404	J
EPASED27	Pu-244	0.00057	0.0016	0.00058	0.0313	U
EPASED27	Rn-220	1.23	0.03	0.12	NA	
EPASED27	Rn-222	1.05	0.028	0.053	NA	
EPASED27	Sb-125	0.11	0.046	0.011	0.354	J
EPASED27	Sn-126	0.0133	0.014	0.0062	0.0237	J
EPASED27	Sr-90	0.07	0.057	0.019	0.485	J
EPASED27	Te-125m	0.0254	0.011	0.0024	0.0838	J
EPASED27	Th-228	1.21	0.011	0.062	3.98	
EPASED27	Th-229	0.0042	0.0019	0.0017	0.145	J
EPASED27	Th-230	0.969	0.008	0.052	2.2	
EPASED27	Th-232	1.06	0.008	0.056	3.1	
EPASED27	Th-234	1.6	0.16	0.092	3.19	R
EPASED27	Tl-208	0.444	0.018	0.018	0.937	
EPASED27	Tm-171	-1.1	5.3	1.6	72.4	U
EPASED27	U-233/U-234	0.919	0.002	0.048	2.02	
EPASED27	U-235/U-236	0.0451	0.0079	0.0074	0.151	J
EPASED27	U-238	0.964	0.006	0.05	1.8	
EPASED28	Ac-227	0.052	0.15	0.048	0.217	U
EPASED28	Ac-228	1.39	0.072	0.047	2.4	
EPASED28	Ag-108	-0.00122	0.0014	0.00043	NA	UL
EPASED28	Ag-108m	-0.0131	0.015	0.0046	NA	UL
EPASED28	Am-241	0.0023	0.0015	0.0011	0.0454	J
EPASED28	Ba-133	-0.0592	0.019	0.0063	NA	R
EPASED28	Ba-137m	0.0408	0.01	0.0049	NA	J
EPASED28	Bi-212	1.06	0.12	0.075	2.15	
EPASED28	Bi-214	1.1	0.029	0.039	1.59	
EPASED28	Cd-113m	-5	41	12	3030	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED28	Cf-249	-0.013	0.065	0.02	NA	U
EPASED28	Cm-243/Cm-244	0.0006	0.0041	0.001	0.0443	U
EPASED28	Cm-245/Cm-246	0.0065	0.0053	0.0024	0.0401	J
EPASED28	Cm-247/Cm-248	0.00071	0.0019	0.00071	0.0306	U
EPASED28	Co-60	-0.0062	0.017	0.0052	0.028	U
EPASED28	Cs-134	0.0102	0.045	0.0033	0.0864	UJ
EPASED28	Cs-137	0.0431	0.011	0.0052	0.207	J
EPASED28	Eu-152	0.0066	0.035	0.0043	0.0566	U
EPASED28	Eu-154	0.011	0.091	0.016	0.15	U
EPASED28	Eu-155	0.107	0.036	0.016	0.231	J
EPASED28	H-3	-0.012	0.075	0.022	11.9	U
EPASED28	Ho-166m	0.0021	0.021	0.0033	0.0432	U
EPASED28	K-40	23.5	0.15	0.7	32.4	
EPASED28	Na-22	0.0005	0.021	0.0061	0.037	U
EPASED28	Nb-94	0.0065	0.014	0.0041	0.0214	U
EPASED28	Ni-59	0	0.027	0.00997	5.96	UL
EPASED28	Ni-63	0.83	0.7	0.22	4.92	
EPASED28	Np-236	-0.0028	0.03	0.009	0.047	U
EPASED28	Np-239	0.008	0.088	0.026	0.139	U
EPASED28	Pa-231	0.1	0.58	0.18	0.936	U
EPASED28	Pb-212	1.53	0.031	0.063	2.69	
EPASED28	Pb-214	1.24	0.028	0.04	1.7	
EPASED28	Pu-236	-0.0005	0.0056	0.0012	7.79	U
EPASED28	Pu-238	0.0037	0.0034	0.0015	0.0415	J
EPASED28	Pu-239/Pu-240	0.0014	0.0013	0.00081	0.0404	J
EPASED28	Pu-244	0	0.0034	0.0007	0.0313	U
EPASED28	Rn-220	1.29	0.031	0.098	NA	
EPASED28	Rn-222	1.17	0.028	0.056	NA	
EPASED28	Sb-125	0.122	0.037	0.0093	0.354	
EPASED28	Sn-126	0.0018	0.015	0.0046	0.0237	U
EPASED28	Sr-90	-0.036	0.054	0.014	0.485	UL
EPASED28	Tc-99	0.035	0.19	0.057	1.63	U
EPASED28	Te-125m	0.0281	0.0086	0.0022	0.0838	J
EPASED28	Th-228	1.47	0.009	0.073	3.98	
EPASED28	Th-229	0.0093	0.0025	0.003	0.145	J
EPASED28	Th-230	1.04	0.007	0.054	2.2	J
EPASED28	Th-232	1.42	0.007	0.07	3.1	
EPASED28	Th-234	0.425	0.17	0.055	3.19	J R

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED28	Tl-208	0.49	0.016	0.018	0.937	
EPASED28	Tm-171	-1.8	6.2	1.9	72.4	U
EPASED28	U-233/U-234	0.826	0.004	0.04	2.02	
EPASED28	U-235/U-236	0.0431	0.0016	0.0054	0.151	J
EPASED28	U-238	0.8	0.004	0.039	1.8	J
EPASED29	Ac-227	0.017	0.16	0.048	0.217	U
EPASED29	Ac-228	1.14	0.09	0.044	2.4	
EPASED29	Ag-108	-0.00158	0.0016	0.00049	NA	UL
EPASED29	Ag-108m	-0.0169	0.017	0.0053	NA	UL
EPASED29	Am-241	0.0031	0.0038	0.0015	0.0454	J
EPASED29	Ba-133	-0.0524	0.021	0.007	NA	R
EPASED29	Ba-137m	0.098	0.015	0.0083	NA	J
EPASED29	Bi-212	0.883	0.14	0.082	2.15	
EPASED29	Bi-214	0.753	0.03	0.03	1.59	
EPASED29	Cd-113m	8	44	13	3030	U
EPASED29	Cf-249	0.0083	0.078	0.0041	NA	U
EPASED29	Cm-243/Cm-244	0.001	0.0037	0.001	0.0443	U
EPASED29	Cm-245/Cm-246	0.0085	0.011	0.0041	0.0401	J
EPASED29	Cm-247/Cm-248	0.0024	0.0032	0.0017	0.0306	U
EPASED29	Co-60	0.0025	0.02	0.0059	0.028	U
EPASED29	Cs-134	0.0016	0.05	0.0025	0.0864	UJ
EPASED29	Cs-137	0.104	0.016	0.0088	0.207	
EPASED29	Eu-152	-0.012	0.043	0.013	0.0566	U
EPASED29	Eu-154	0.0135	0.12	0.0082	0.15	U
EPASED29	Eu-155	0.075	0.034	0.013	0.231	J
EPASED29	H-3	0.021	0.074	0.022	11.9	U
EPASED29	Ho-166m	0.0113	0.028	0.0057	0.0432	U
EPASED29	K-40	20.2	0.21	0.63	32.4	
EPASED29	Na-22	0.0095	0.024	0.0072	0.037	U
EPASED29	Nb-94	0.0047	0.016	0.0039	0.0214	U
EPASED29	Ni-59	0	0.021	0.0079	5.96	UL
EPASED29	Ni-63	0.13	0.64	0.19	4.92	U
EPASED29	Np-236	0.004	0.035	0.01	0.047	U
EPASED29	Np-239	0.018	0.096	0.029	0.139	U
EPASED29	Pa-231	-0.15	0.67	0.2	0.936	U
EPASED29	Pb-212	1.3	0.024	0.04	2.69	
EPASED29	Pb-214	0.833	0.028	0.037	1.7	
EPASED29	Pu-236	0	0.0043	0.00098	7.79	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED29	Pu-238	0.0022	0.0069	0.002	0.0415	U
EPASED29	Pu-239/Pu-240	0.0045	0.002	0.0018	0.0404	J
EPASED29	Pu-244	0.0015	0.002	0.001	0.0313	U
EPASED29	Rn-220	1.09	0.024	0.091	NA	
EPASED29	Rn-222	0.793	0.028	0.047	NA	
EPASED29	Sb-125	0.109	0.042	0.011	0.354	
EPASED29	Sn-126	0.0146	0.014	0.0064	0.0237	J
EPASED29	Sr-90	-0.003	0.065	0.019	0.485	U
EPASED29	Tc-99	-0.047	0.15	0.044	1.63	U
EPASED29	Te-125m	0.0251	0.0098	0.0025	0.0838	J
EPASED29	Th-228	1.01	0.003	0.055	3.98	
EPASED29	Th-229	0.0081	0.0022	0.0026	0.145	J
EPASED29	Th-230	0.674	0.003	0.04	2.2	J
EPASED29	Th-232	0.961	0.011	0.052	3.1	
EPASED29	Th-234	0.292	0.19	0.059	3.19	J R
EPASED29	Tl-208	0.437	0.02	0.018	0.937	
EPASED29	Tm-171	1	5.2	1.6	72.4	U
EPASED29	U-233/U-234	0.663	0.002	0.036	2.02	
EPASED29	U-235/U-236	0.0324	0.0028	0.006	0.151	J
EPASED29	U-238	0.661	0.002	0.036	1.8	J
EPASED30	Ac-227	0.028	0.18	0.053	0.217	U
EPASED30	Ac-228	1.3	0.11	0.05	2.4	
EPASED30	Ag-108	-0.00261	0.0019	0.00059	NA	R
EPASED30	Ag-108m	-0.0281	0.02	0.0064	NA	R
EPASED30	Am-241	0.0039	0.0057	0.0021	0.0454	J
EPASED30	Ba-133	-0.0143	0.021	0.0065	NA	UJ
EPASED30	Ba-137m	0.102	0.018	0.0098	NA	J
EPASED30	Bi-212	1.07	0.16	0.098	2.15	
EPASED30	Bi-214	1.09	0.032	0.039	1.59	
EPASED30	Cd-113m	9	50	15	3030	U
EPASED30	Cf-249	-0.026	0.078	0.024	NA	U
EPASED30	Cm-243/Cm-244	0.0023	0.0056	0.0018	0.0443	J
EPASED30	Cm-245/Cm-246	0.0058	0.01	0.0034	0.0401	J
EPASED30	Cm-247/Cm-248	-0.0009	0.0069	0.0011	0.0306	U
EPASED30	Co-60	0.00001	0.021	0.0062	0.028	U
EPASED30	Cs-134	0.02	0.063	0.0053	0.0864	UJ
EPASED30	Cs-137	0.108	0.019	0.01	0.207	
EPASED30	Eu-152	0.006	0.048	0.015	0.0566	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED30	Eu-154	0.013	0.12	0.016	0.15	U
EPASED30	Eu-155	0.075	0.041	0.016	0.231	J
EPASED30	H-3	0	0.081	0.023	11.9	U
EPASED30	Ho-166m	0.02	0.031	0.011	0.0432	J
EPASED30	K-40	22	0.22	0.68	32.4	
EPASED30	Na-22	0.0034	0.026	0.0079	0.037	U
EPASED30	Nb-94	0.0045	0.018	0.004	0.0214	U
EPASED30	Ni-59	0	0.016	0.0058	5.96	UL
EPASED30	Ni-63	-0.12	0.46	0.14	4.92	U
EPASED30	Np-236	-0.008	0.039	0.012	0.047	U
EPASED30	Np-239	0.003	0.097	0.029	0.139	U
EPASED30	Pa-231	0.12	0.73	0.22	0.936	U
EPASED30	Pb-212	1.48	0.026	0.046	2.69	
EPASED30	Pb-214	1.15	0.036	0.05	1.7	
EPASED30	Pu-236	0	0.0015	0.00061	7.79	U
EPASED30	Pu-238	0.0029	0.0089	0.0026	0.0415	U
EPASED30	Pu-239/Pu-240	0.0086	0.0026	0.0029	0.0404	J
EPASED30	Pu-244	0	0.0026	0.0011	0.0313	U
EPASED30	Rn-220	1.28	0.03	0.11	NA	
EPASED30	Rn-222	1.12	0.032	0.063	NA	
EPASED30	Sb-125	0.161	0.049	0.015	0.354	
EPASED30	Sn-126	0.0053	0.021	0.0062	0.0237	U
EPASED30	Sr-90	0.029	0.063	0.019	0.485	U
EPASED30	Tc-99	-0.056	0.15	0.045	1.63	U
EPASED30	Te-125m	0.0372	0.011	0.0034	0.0838	J
EPASED30	Th-228	1.35	0.01	0.071	3.98	
EPASED30	Th-229	0.0057	0.011	0.0035	0.145	J
EPASED30	Th-230	1.01	0.01	0.057	2.2	J
EPASED30	Th-232	1.19	0.004	0.064	3.1	
EPASED30	Th-234	1.92	0.19	0.1	3.19	R
EPASED30	Tl-208	0.495	0.023	0.021	0.937	
EPASED30	Tm-171	0.8	7.2	2.2	72.4	U
EPASED30	U-233/U-234	0.879	0.007	0.044	2.02	
EPASED30	U-235/U-236	0.0349	0.0021	0.0055	0.151	J
EPASED30	U-238	0.895	0.002	0.045	1.8	J
EPASED31	Ac-227	0.048	0.14	0.056	0.217	U
EPASED31	Ac-228	1.35	0.099	0.05	2.4	
EPASED31	Ag-108	-0.00105	0.002	0.00061	NA	UL

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED31	Ag-108m	-0.0113	0.022	0.0065	NA	UL
EPASED31	Am-241	0.00055	0.0041	0.00099	0.0454	U
EPASED31	Ba-133	-0.0183	0.024	0.0073	NA	UJ
EPASED31	Ba-137m	0.108	0.019	0.011	NA	J
EPASED31	Bi-212	0.994	0.15	0.08	2.15	
EPASED31	Bi-214	1.02	0.038	0.039	1.59	
EPASED31	Cd-113m	11	50	15	3030	U
EPASED31	Cf-249	0.0082	0.082	0.006	NA	U
EPASED31	Cm-243/Cm-244	-0.00054	0.004	0.0006	0.0443	U
EPASED31	Cm-245/Cm-246	0.0017	0.008	0.0022	0.0401	U
EPASED31	Cm-247/Cm-248	0.0008	0.0062	0.0015	0.0306	U
EPASED31	Co-60	0.0009	0.023	0.0067	0.028	U
EPASED31	Cs-134	0.0036	0.062	0.0042	0.0864	UJ
EPASED31	Cs-137	0.114	0.02	0.011	0.207	
EPASED31	Eu-152	0.0008	0.048	0.014	0.0566	U
EPASED31	Eu-154	0.071	0.1	0.032	0.15	J
EPASED31	Eu-155	0.097	0.04	0.016	0.231	J
EPASED31	H-3	0.025	0.072	0.022	11.9	U
EPASED31	Ho-166m	0.013	0.033	0.01	0.0432	U
EPASED31	K-40	24.6	0.23	0.76	32.4	
EPASED31	Na-22	-0.0035	0.027	0.008	0.037	U
EPASED31	Nb-94	0.0072	0.019	0.0057	0.0214	U
EPASED31	Ni-59	0	0.016	0.03	5.96	UL
EPASED31	Ni-63	-0.04	0.47	0.14	4.92	U
EPASED31	Np-236	-0.0005	0.037	0.011	0.047	U
EPASED31	Np-239	-0.038	0.1	0.031	0.139	U
EPASED31	Pa-231	-0.22	0.73	0.22	0.936	U
EPASED31	Pb-212	1.5	0.032	0.047	2.69	
EPASED31	Pb-214	1.08	0.037	0.047	1.7	
EPASED31	Pu-236	-0.0009	0.0049	0.001	7.79	U
EPASED31	Pu-238	0.0015	0.002	0.001	0.0415	U
EPASED31	Pu-239/Pu-240	0.0022	0.002	0.0013	0.0404	J
EPASED31	Pu-244	0.00073	0.002	0.00073	0.0313	U
EPASED31	Rn-220	1.25	0.032	0.093	NA	
EPASED31	Rn-222	1.05	0.037	0.061	NA	
EPASED31	Sb-125	0.137	0.054	0.013	0.354	
EPASED31	Sn-126	0.0006	0.02	0.006	0.0237	U
EPASED31	Sr-90	0.03	0.061	0.019	0.485	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED31	Tc-99	0.013	0.15	0.044	1.63	U
EPASED31	Te-125m	0.0317	0.012	0.003	0.0838	J
EPASED31	Th-228	1.41	0.01	0.073	3.98	
EPASED31	Th-229	0.0099	0.0045	0.0041	0.145	K
EPASED31	Th-230	0.958	0.012	0.054	2.2	J
EPASED31	Th-232	1.41	0.004	0.073	3.1	
EPASED31	Th-234	0.44	0.21	0.066	3.19	J R
EPASED31	Tl-208	0.524	0.024	0.022	0.937	
EPASED31	Tm-171	-6.4	6.2	1.9	72.4	R
EPASED31	U-233/U-234	0.75	0.002	0.04	2.02	
EPASED31	U-235/U-236	0.0354	0.0027	0.0061	0.151	J
EPASED31	U-238	0.779	0.002	0.041	1.8	J
EPASED32	Ac-227	0.035	0.16	0.059	0.217	U
EPASED32	Ac-228	1.17	0.1	0.044	2.4	
EPASED32	Ag-108	-0.0028	0.0018	0.00057	NA	R
EPASED32	Ag-108m	-0.0301	0.019	0.0062	NA	R
EPASED32	Am-241	0.0022	0.0015	0.0011	0.0454	J
EPASED32	Ba-133	-0.0694	0.023	0.008	NA	R
EPASED32	Ba-137m	0.0947	0.016	0.009	NA	J
EPASED32	Bi-212	0.96	0.15	0.088	2.15	
EPASED32	Bi-214	0.92	0.037	0.036	1.59	
EPASED32	Cd-113m	3	48	14	3030	U
EPASED32	Cf-249	0.0093	0.068	0.0053	NA	U
EPASED32	Cm-243/Cm-244	0.00053	0.0014	0.00053	0.0443	U
EPASED32	Cm-245/Cm-246	0.0041	0.011	0.0034	0.0401	U
EPASED32	Cm-247/Cm-248	0.001	0.0027	0.001	0.0306	U
EPASED32	Co-60	-0.0046	0.021	0.0062	0.028	U
EPASED32	Cs-134	0.0225	0.054	0.0095	0.0864	UJ
EPASED32	Cs-137	0.1	0.017	0.0095	0.207	
EPASED32	Eu-152	0.015	0.045	0.014	0.0566	U
EPASED32	Eu-154	-0.064	0.12	0.037	0.15	UL
EPASED32	Eu-155	0.098	0.041	0.017	0.231	J
EPASED32	H-3	-0.018	0.073	0.021	11.9	U
EPASED32	Ho-166m	-0.0002	0.024	0.007	0.0432	U
EPASED32	K-40	23.1	0.23	0.71	32.4	
EPASED32	Na-22	0.006	0.022	0.0066	0.037	U
EPASED32	Nb-94	0.00007	0.015	0.0044	0.0214	U
EPASED32	Ni-59	0	0.01	0.015	5.96	UL

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED32	Ni-63	0.04	0.31	0.093	4.92	U
EPASED32	Np-236	0.001	0.038	0.011	0.047	U
EPASED32	Np-239	0.04	0.094	0.028	0.139	U
EPASED32	Pa-231	-0.14	0.68	0.21	0.936	U
EPASED32	Pb-212	1.34	0.029	0.042	2.69	
EPASED32	Pb-214	1	0.032	0.043	1.7	
EPASED32	Pu-236	0.012	0.0054	0.0028	7.79	J
EPASED32	Pu-238	0.0032	0.0014	0.0013	0.0415	J
EPASED32	Pu-239/Pu-240	0.0021	0.0039	0.0013	0.0404	J
EPASED32	Pu-244	0.00107	0.0014	0.00076	0.0313	U
EPASED32	Rn-220	1.15	0.029	0.097	NA	
EPASED32	Rn-222	0.96	0.032	0.056	NA	J
EPASED32	Sb-125	0.111	0.048	0.011	0.354	
EPASED32	Sn-126	0.0004	0.014	0.004	0.0237	U
EPASED32	Sr-90	0.025	0.049	0.015	0.485	U
EPASED32	Tc-99	0.033	0.2	0.06	1.63	U
EPASED32	Te-125m	0.0256	0.011	0.0026	0.0838	J
EPASED32	Th-228	1.15	0.009	0.058	3.98	
EPASED32	Th-229	0.0085	0.0025	0.0028	0.145	J
EPASED32	Th-230	0.866	0.002	0.045	2.2	J
EPASED32	Th-232	1.17	0.002	0.058	3.1	
EPASED32	Th-234	1.71	0.18	0.092	3.19	R
EPASED32	Tl-208	0.438	0.02	0.018	0.937	
EPASED32	Tm-171	-5.7	5.7	1.8	72.4	UL
EPASED32	U-233/U-234	0.728	0.008	0.039	2.02	
EPASED32	U-235/U-236	0.0382	0.0028	0.0065	0.151	J
EPASED32	U-238	0.722	0.002	0.039	1.8	J
EPASED33	Ac-227	0.041	0.16	0.05	0.217	U
EPASED33	Ac-228	1.03	0.097	0.043	2.4	
EPASED33	Ag-108	-0.001	0.0017	0.00051	NA	UL
EPASED33	Ag-108m	-0.0107	0.018	0.0055	NA	UL
EPASED33	Am-241	0.0024	0.0044	0.0015	0.0454	J
EPASED33	Ba-133	-0.114	0.03	0.011	NA	R
EPASED33	Ba-137m	0.0307	0.014	0.0061	NA	J
EPASED33	Bi-212	0.79	0.15	0.09	2.15	
EPASED33	Bi-214	0.761	0.032	0.031	1.59	
EPASED33	Cd-113m	21	35	14	3030	
EPASED33	Cf-249	0.031	0.066	0.02	NA	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED33	Cm-243/Cm-244	0.0006	0.0043	0.0011	0.0443	U
EPASED33	Cm-245/Cm-246	0.0058	0.0061	0.0026	0.0401	J
EPASED33	Cm-247/Cm-248	0	0.0022	0.00092	0.0306	U
EPASED33	Co-60	0.0019	0.02	0.0059	0.028	U
EPASED33	Cs-134	0.0033	0.059	0.0041	0.0864	UJ
EPASED33	Cs-137	0.0324	0.014	0.0064	0.207	J
EPASED33	Eu-152	0.0046	0.046	0.0044	0.0566	U
EPASED33	Eu-154	-0.028	0.11	0.034	0.15	U
EPASED33	Eu-155	0.071	0.045	0.018	0.231	J
EPASED33	H-3	0.069	0.057	0.018	11.9	J
EPASED33	Ho-166m	0.0283	0.028	0.0065	0.0432	J
EPASED33	K-40	22.6	0.16	0.69	32.4	
EPASED33	Na-22	-0.0015	0.024	0.0071	0.037	U
EPASED33	Nb-94	0.0048	0.015	0.0036	0.0214	U
EPASED33	Ni-59	0	0.013	0.0049	5.96	UL
EPASED33	Ni-63	0.13	0.39	0.12	4.92	U
EPASED33	Np-236	-0.007	0.041	0.012	0.047	U
EPASED33	Np-239	0.0004	0.091	0.027	0.139	U
EPASED33	Pa-231	-0.07	0.67	0.2	0.936	U
EPASED33	Pb-212	0.991	0.035	0.035	2.69	
EPASED33	Pb-214	0.815	0.032	0.038	1.7	
EPASED33	Pu-236	0.0192	0.0038	0.0034	7.79	J
EPASED33	Pu-238	0.0005	0.0056	0.0015	0.0415	U
EPASED33	Pu-239/Pu-240	0.00047	0.0013	0.00047	0.0404	U
EPASED33	Pu-244	0	0.0013	0.00052	0.0313	U
EPASED33	Rn-220	0.89	0.035	0.097	NA	
EPASED33	Rn-222	0.788	0.032	0.049	NA	
EPASED33	Sb-125	0.111	0.047	0.011	0.354	
EPASED33	Sn-126	0.0005	0.019	0.0056	0.0237	U
EPASED33	Sr-90	0.014	0.05	0.015	0.485	U
EPASED33	Tc-99	-0.056	0.16	0.046	1.63	U
EPASED33	Te-125m	0.0258	0.011	0.0027	0.0838	J
EPASED33	Th-228	1.1	0.009	0.057	3.98	
EPASED33	Th-229	0.0021	0.011	0.0031	0.145	U
EPASED33	Th-230	0.879	0.007	0.047	2.2	J
EPASED33	Th-232	1.08	0.007	0.056	3.1	
EPASED33	Th-234	1.21	0.24	0.083	3.19	R
EPASED33	Tl-208	0.377	0.018	0.016	0.937	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED33	Tm-171	-10.8	9	2.8	72.4	R
EPASED33	U-233/U-234	0.702	0.008	0.037	2.02	
EPASED33	U-235/U-236	0.0461	0.0024	0.0067	0.151	J
EPASED33	U-238	0.671	0.005	0.036	1.8	J
EPASED34	Ac-227	0.024	0.14	0.03	0.217	U
EPASED34	Ac-228	1.13	0.092	0.044	2.4	
EPASED34	Ag-108	-0.00174	0.0016	0.00049	NA	R
EPASED34	Ag-108m	-0.0187	0.017	0.0052	NA	R
EPASED34	Am-241	0.00064	0.0017	0.00064	0.0454	U
EPASED34	Ba-133	-0.0571	0.02	0.0068	NA	R
EPASED34	Ba-137m	0.0959	0.016	0.0088	NA	J
EPASED34	Bi-212	0.879	0.13	0.075	2.15	
EPASED34	Bi-214	0.884	0.03	0.033	1.59	
EPASED34	Cd-113m	9	42	13	3030	U
EPASED34	Cf-249	-0.02	0.07	0.021	NA	U
EPASED34	Cm-243/Cm-244	0.0019	0.0017	0.0011	0.0443	J
EPASED34	Cm-245/Cm-246	0.0083	0.0086	0.0034	0.0401	J
EPASED34	Cm-247/Cm-248	0.0027	0.0025	0.0016	0.0306	J
EPASED34	Co-60	-0.0051	0.02	0.0059	0.028	U
EPASED34	Cs-134	0.0103	0.048	0.0041	0.0864	UJ
EPASED34	Cs-137	0.101	0.016	0.0093	0.207	
EPASED34	Eu-152	-0.009	0.036	0.011	0.0566	U
EPASED34	Eu-154	-0.027	0.11	0.033	0.15	U
EPASED34	Eu-155	0.091	0.037	0.016	0.231	J
EPASED34	H-3	0.034	0.078	0.024	11.9	U
EPASED34	Ho-166m	0.0076	0.026	0.007	0.0432	U
EPASED34	K-40	20.9	0.2	0.64	32.4	
EPASED34	Na-22	-0.0053	0.024	0.0071	0.037	U
EPASED34	Nb-94	0.0028	0.015	0.0046	0.0214	U
EPASED34	Ni-59	0	0.013	0.0047	5.96	UL
EPASED34	Ni-63	-0.07	0.39	0.11	4.92	U
EPASED34	Np-236	-0.0007	0.033	0.0099	0.047	U
EPASED34	Np-239	-0.005	0.09	0.027	0.139	U
EPASED34	Pa-231	-0.03	0.62	0.18	0.936	U
EPASED34	Pb-212	1.25	0.022	0.039	2.69	
EPASED34	Pb-214	0.919	0.028	0.04	1.7	
EPASED34	Pu-236	0.0121	0.0032	0.0024	7.79	J
EPASED34	Pu-238	0.0007	0.0048	0.0012	0.0415	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED34	Pu-239/Pu-240	0.004	0.0018	0.0016	0.0404	J
EPASED34	Pu-244	0	0.0018	0.00073	0.0313	U
EPASED34	Rn-220	1.07	0.022	0.084	NA	
EPASED34	Rn-222	0.901	0.028	0.052	NA	J
EPASED34	Sb-125	0.0953	0.039	0.0088	0.354	
EPASED34	Sn-126	-0.0023	0.017	0.0052	0.0237	U
EPASED34	Sr-90	0.024	0.052	0.016	0.485	U
EPASED34	Tc-99	-0.006	0.14	0.043	1.63	U
EPASED34	Te-125m	0.022	0.0089	0.002	0.0838	J
EPASED34	Th-228	1.09	0.016	0.058	3.98	
EPASED34	Th-229	0.0039	0.0095	0.003	0.145	J
EPASED34	Th-230	0.869	0.003	0.048	2.2	J
EPASED34	Th-232	1.07	0.003	0.057	3.1	
EPASED34	Th-234	1.72	0.17	0.092	3.19	R
EPASED34	Tl-208	0.407	0.018	0.016	0.937	
EPASED34	Tm-171	-0.4	5.7	1.7	72.4	U
EPASED34	U-233/U-234	0.999	0.01	0.052	2.02	
EPASED34	U-235/U-236	0.0446	0.0031	0.0074	0.151	J
EPASED34	U-238	1.02	0.007	0.053	1.8	J
EPASED35	Ac-227	0.02	0.06	0.14	0.217	U
EPASED35	Ac-228	1.02	0.039	0.093	2.4	
EPASED35	Ag-108	-0.00042	0.00042	0.0014	NA	U
EPASED35	Ag-108m	-0.0045	0.0045	0.015	NA	U
EPASED35	Am-241	0.0007	0.0016	0.0065	0.0454	U
EPASED35	Ba-133	-0.0004	0.0048	0.016	NA	UJ
EPASED35	Ba-137m	0.0539	0.006	0.016	NA	J
EPASED35	Bi-212	0.788	0.058	0.11	2.15	J
EPASED35	Bi-214	0.798	0.029	0.026	1.59	
EPASED35	Cd-113m	-9	12	39	3030	U
EPASED35	Cf-249	-0.008	0.02	0.067	NA	U
EPASED35	Cm-243/Cm-244	-0.0041	0.0028	0.012	0.0443	U
EPASED35	Cm-245/Cm-246	0.002	0.0011	0.0018	0.0401	J
EPASED35	Cm-247/Cm-248	-0.00064	0.00072	0.0047	0.0306	U
EPASED35	Co-60	0.0018	0.0031	0.018	0.028	U
EPASED35	Cs-134	0.0121	0.0034	0.011	0.0864	J
EPASED35	Cs-137	0.057	0.0064	0.017	0.207	J
EPASED35	Eu-152	0.017	0.011	0.028	0.0566	J
EPASED35	Eu-154	-0.062	0.033	0.11	0.15	UL

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED35	Eu-155	0.072	0.012	0.031	0.231	J
EPASED35	Ho-166m	0.0037	0.0049	0.027	0.0432	U
EPASED35	K-40	20.3	0.62	0.15	32.4	
EPASED35	Na-22	-0.0009	0.0068	0.023	0.037	U
EPASED35	Nb-94	0.0038	0.0032	0.015	0.0214	U
EPASED35	Np-236	-0.0005	0.0088	0.029	0.047	U
EPASED35	Np-239	0.017	0.026	0.088	0.139	U
EPASED35	Pa-231	-0.25	0.19	0.62	0.936	U
EPASED35	Pb-212	1.17	0.048	0.019	2.69	
EPASED35	Pb-214	0.855	0.03	0.026	1.7	
EPASED35	Pu-236	-0.00088	0.00094	0.0047	7.79	U
EPASED35	Pu-238	0	0.0014	0.0057	0.0415	U
EPASED35	Pu-239/Pu-240	0.0013	0.00099	0.0032	0.0404	J
EPASED35	Pu-244	0.00086	0.00061	0.0012	0.0313	U
EPASED35	Rn-220	0.977	0.076	0.019	NA	J
EPASED35	Rn-222	0.826	0.042	0.026	NA	
EPASED35	Sb-125	0.123	0.011	0.038	0.354	J
EPASED35	Sn-126	-0.0004	0.0049	0.017	0.0237	U
EPASED35	Sr-90	0.044	0.021	0.067	0.485	J
EPASED35	Te-125m	0.0283	0.0026	0.0089	0.0838	J
EPASED35	Th-228	1.01	0.05	0.008	3.98	
EPASED35	Th-229	0.0022	0.0026	0.0095	0.145	U
EPASED35	Th-230	0.691	0.036	0.004	2.2	
EPASED35	Th-232	0.929	0.046	0.002	3.1	
EPASED35	Th-234	0.335	0.052	0.17	3.19	J
EPASED35	Tl-208	0.347	0.014	0.015	0.937	
EPASED35	Tm-171	3	1.4	4.7	72.4	J
EPASED35	U-233/U-234	0.86	0.045	0.002	2.02	K
EPASED35	U-235/U-236	0.056	0.0079	0.0028	0.151	J
EPASED35	U-238	0.881	0.046	0.008	1.8	
EPASED36	Ac-227	0.064	0.19	0.056	0.217	U
EPASED36	Ac-228	1.49	0.096	0.056	2.4	J
EPASED36	Ag-108	-0.00311	0.0019	0.00059	NA	R
EPASED36	Ag-108m	-0.0334	0.02	0.0064	NA	R
EPASED36	Am-241	-0.001	0.013	0.0031	0.0454	U
EPASED36	Ba-133	-0.17	0.035	0.013	NA	R
EPASED36	Ba-137m	0.0274	0.015	0.0048	NA	J
EPASED36	Bi-212	1.18	0.14	0.083	2.15	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED36	Bi-214	1.17	0.032	0.042	1.59	
EPASED36	Cd-113m	4	53	16	3030	U
EPASED36	Cf-249	-0.06	0.086	0.027	NA	UL
EPASED36	Cm-243/Cm-244	-0.001	0.012	0.0027	0.0443	U
EPASED36	Cm-245/Cm-246	-0.0011	0.01	0.0021	0.0401	U
EPASED36	Cm-247/Cm-248	0.0011	0.0079	0.0019	0.0306	U
EPASED36	Co-60	0.006	0.018	0.0055	0.028	U
EPASED36	Cs-134	0.0198	0.074	0.0055	0.0864	U
EPASED36	Cs-137	0.029	0.016	0.0051	0.207	J
EPASED36	Eu-152	-0.0034	0.051	0.0033	0.0566	U
EPASED36	Eu-154	-0.042	0.13	0.04	0.15	U
EPASED36	Eu-155	0.104	0.054	0.022	0.231	J
EPASED36	H-3	0.071	0.065	0.021	11.9	J
EPASED36	Ho-166m	0.0032	0.032	0.0026	0.0432	U
EPASED36	K-40	24.1	0.13	0.73	32.4	J
EPASED36	Na-22	-0.00059	0.033	0.00995	0.037	U
EPASED36	Nb-94	0.0035	0.018	0.0038	0.0214	U
EPASED36	Np-236	-0.014	0.046	0.014	0.047	U
EPASED36	Np-239	-0.0007	0.12	0.035	0.139	U
EPASED36	Pa-231	0.06	0.81	0.24	0.936	U
EPASED36	Pb-212	1.53	0.038	0.049	2.69	
EPASED36	Pb-214	1.31	0.035	0.056	1.7	J
EPASED36	Pu-236	-0.00049	0.0045	0.00091	7.79	U
EPASED36	Pu-238	-0.0017	0.0092	0.0019	0.0415	U
EPASED36	Pu-239/Pu-240	0.006	0.0063	0.0026	0.0404	J
EPASED36	Pu-244	0.00086	0.0023	0.00086	0.0313	U
EPASED36	Rn-220	1.35	0.038	0.097	NA	
EPASED36	Rn-222	1.24	0.032	0.069	NA	
EPASED36	Sb-125	0.128	0.044	0.011	0.354	J
EPASED36	Sn-126	-0.0002	0.02	0.0061	0.0237	U
EPASED36	Sr-90	0.021	0.057	0.017	0.485	U
EPASED36	Tc-99	0.094	0.091	0.028	1.63	J
EPASED36	Te-125m	0.0295	0.01	0.0025	0.0838	J
EPASED36	Th-228	1.28	0.015	0.063	3.98	
EPASED36	Th-229	0.009	0.0082	0.0036	0.145	J
EPASED36	Th-230	1.2	0.006	0.06	2.2	
EPASED36	Th-232	1.25	0.008	0.062	3.1	
EPASED36	Th-234	1.71	0.26	0.1	3.19	R

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED36	Tl-208	0.544	0.019	0.02	0.937	
EPASED36	Tm-171	-11.5	11	3.4	72.4	R
EPASED36	U-233/U-234	1.07	0.009	0.058	2.02	
EPASED36	U-235/U-236	0.0569	0.0043	0.0098	0.151	J
EPASED36	U-238	1.19	0.003	0.063	1.8	
EPASED37	Ac-227	0.038	0.16	0.026	0.217	U
EPASED37	Ac-228	1.38	0.13	0.052	2.4	
EPASED37	Ag-108	-0.00148	0.0019	0.00057	NA	UL
EPASED37	Ag-108m	-0.0159	0.02	0.0061	NA	UL
EPASED37	Am-241	0.0022	0.004	0.0013	0.0454	J
EPASED37	Ba-133	-0.114	0.031	0.011	NA	R
EPASED37	Ba-137m	0.0416	0.015	0.0068	NA	J
EPASED37	Bi-212	1.1	0.18	0.12	2.15	
EPASED37	Bi-214	1.11	0.037	0.042	1.59	
EPASED37	Cd-113m	-0.9	50	15	3030	U
EPASED37	Cf-249	0.0058	0.084	0.0031	NA	U
EPASED37	Cm-243/Cm-244	0.00053	0.0039	0.00095	0.0443	U
EPASED37	Cm-245/Cm-246	0.0116	0.006	0.0031	0.0401	J
EPASED37	Cm-247/Cm-248	0.0019	0.0017	0.0011	0.0306	J
EPASED37	Co-60	0.0045	0.025	0.0051	0.028	U
EPASED37	Cs-134	0.0188	0.067	0.0051	0.0864	UJ
EPASED37	Cs-137	0.044	0.016	0.0072	0.207	J
EPASED37	Eu-152	0.002	0.046	0.011	0.0566	U
EPASED37	Eu-154	-0.06	0.14	0.043	0.15	U
EPASED37	Eu-155	0.097	0.041	0.017	0.231	J
EPASED37	H-3	0.037	0.076	0.023	11.9	J
EPASED37	Ho-166m	0.016	0.033	0.011	0.0432	J
EPASED37	K-40	21.6	0.18	0.67	32.4	
EPASED37	Na-22	0.0023	0.028	0.0084	0.037	U
EPASED37	Nb-94	0.0009	0.014	0.0042	0.0214	U
EPASED37	Ni-59	0	0.016	0.0058	5.96	UL
EPASED37	Ni-63	-0.13	0.48	0.14	4.92	U
EPASED37	Np-236	-0.011	0.039	0.012	0.047	U
EPASED37	Np-239	0.025	0.11	0.032	0.139	U
EPASED37	Pa-231	0.11	0.74	0.22	0.936	U
EPASED37	Pb-212	1.62	0.032	0.067	2.69	
EPASED37	Pb-214	1.23	0.033	0.042	1.7	
EPASED37	Pu-236	0.0144	0.0035	0.0028	7.79	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED37	Pu-238	0.0034	0.0063	0.0021	0.0415	J
EPASED37	Pu-239/Pu-240	0.0027	0.005	0.0017	0.0404	J
EPASED37	Pu-244	0	0.0018	0.00075	0.0313	U
EPASED37	Rn-220	1.36	0.03	0.13	NA	
EPASED37	Rn-222	1.17	0.033	0.059	NA	
EPASED37	Sb-125	0.154	0.053	0.014	0.354	
EPASED37	Sn-126	-0.0028	0.021	0.0064	0.0237	U
EPASED37	Sr-90	0.044	0.062	0.019	0.485	J
EPASED37	Tc-99	-0.055	0.16	0.046	1.63	U
EPASED37	Te-125m	0.0355	0.012	0.0033	0.0838	J
EPASED37	Th-228	1.21	0.013	0.063	3.98	
EPASED37	Th-229	0.0012	0.011	0.0027	0.145	U
EPASED37	Th-230	0.865	0.003	0.049	2.2	J
EPASED37	Th-232	1.1	0.003	0.059	3.1	
EPASED37	Th-234	2.31	0.2	0.12	3.19	R
EPASED37	Tl-208	0.524	0.023	0.022	0.937	
EPASED37	Tm-171	-0.3	7.4	2.2	72.4	U
EPASED37	U-233/U-234	1.57	0.003	0.071	2.02	
EPASED37	U-235/U-236	0.0804	0.0014	0.0073	0.151	J
EPASED37	U-238	1.47	0.001	0.066	1.8	J
EPASED38	Ac-227	0.062	0.15	0.02	0.217	U
EPASED38	Ac-228	1.48	0.074	0.048	2.4	J
EPASED38	Ag-108	-0.00093	0.0014	0.00042	NA	UJ
EPASED38	Ag-108m	-0.01	0.015	0.0046	NA	UJ
EPASED38	Am-241	0.0013	0.0092	0.0023	0.0454	U
EPASED38	Ba-133	-0.062	0.02	0.0066	NA	R
EPASED38	Ba-137m	0.0544	0.011	0.0052	NA	J
EPASED38	Bi-212	1.17	0.13	0.079	2.15	
EPASED38	Bi-214	1.08	0.028	0.037	1.59	
EPASED38	Cd-113m	0.6	42	13	3030	U
EPASED38	Cf-249	-0.02	0.067	0.02	NA	U
EPASED38	Cm-243/Cm-244	0	0.011	0.0026	0.0443	U
EPASED38	Cm-245/Cm-246	0.0034	0.0084	0.0026	0.0401	J
EPASED38	Cm-247/Cm-248	0	0.003	0.0012	0.0306	U
EPASED38	Co-60	0.0022	0.018	0.0029	0.028	U
EPASED38	Cs-134	0.0103	0.05	0.003	0.0864	U
EPASED38	Cs-137	0.0575	0.012	0.0055	0.207	J
EPASED38	Eu-152	0.023	0.04	0.012	0.0566	J

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED38	Eu-154	-0.035	0.1	0.03	0.15	U
EPASED38	Eu-155	0.022	0.037	0.011	0.231	J
EPASED38	H-3	0.076	0.062	0.02	11.9	J
EPASED38	Ho-166m	0.0079	0.025	0.0068	0.0432	U
EPASED38	K-40	23.1	0.16	0.69	32.4	J
EPASED38	Na-22	0.0002	0.022	0.0066	0.037	U
EPASED38	Nb-94	0.0053	0.014	0.0042	0.0214	U
EPASED38	Np-236	-0.0091	0.032	0.0098	0.047	U
EPASED38	Np-239	0.009	0.09	0.027	0.139	U
EPASED38	Pa-231	-0.07	0.52	0.16	0.936	U
EPASED38	Pb-212	1.85	0.025	0.075	2.69	
EPASED38	Pb-214	1.28	0.027	0.042	1.7	J
EPASED38	Pu-236	-0.0009	0.0063	0.0015	7.79	U
EPASED38	Pu-238	-0.0005	0.0054	0.0012	0.0415	U
EPASED38	Pu-239/Pu-240	0.005	0.0014	0.0016	0.0404	J
EPASED38	Pu-244	0	0.0013	0.00056	0.0313	U
EPASED38	Rn-220	1.51	0.03	0.11	NA	
EPASED38	Rn-222	1.18	0.027	0.056	NA	
EPASED38	Sb-125	0.133	0.042	0.0088	0.354	J
EPASED38	Sn-126	-0.0007	0.011	0.0033	0.0237	U
EPASED38	Sr-90	0.051	0.055	0.018	0.485	J
EPASED38	Te-125m	0.0308	0.0097	0.002	0.0838	J
EPASED38	Th-228	1.31	0.01	0.067	3.98	
EPASED38	Th-229	0.0068	0.0051	0.0024	0.145	J
EPASED38	Th-230	0.986	0.01	0.053	2.2	
EPASED38	Th-232	1.27	0.003	0.065	3.1	
EPASED38	Th-234	1.8	0.17	0.097	3.19	R
EPASED38	Tl-208	0.557	0.019	0.021	0.937	
EPASED38	Tm-171	-6.1	5.6	1.7	72.4	R
EPASED38	U-233/U-234	1.06	0.003	0.057	2.02	
EPASED38	U-235/U-236	0.0614	0.0038	0.0096	0.151	J
EPASED38	U-238	1.08	0.003	0.057	1.8	
EPASED39	Ac-227	0.057	0.15	0.02	0.217	U
EPASED39	Ac-228	1	0.086	0.039	2.4	J
EPASED39	Ag-108	-0.0018	0.0016	0.00051	NA	R
EPASED39	Ag-108m	-0.0194	0.017	0.0055	NA	R
EPASED39	Am-241	0.0034	0.0091	0.0028	0.0454	J
EPASED39	Ba-133	-0.0555	0.021	0.007	NA	R

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED39	Ba-137m	0.0497	0.013	0.0059	NA	J
EPASED39	Bi-212	0.857	0.14	0.083	2.15	J
EPASED39	Bi-214	0.793	0.029	0.031	1.59	
EPASED39	Cd-113m	-0.1	44	13	3030	U
EPASED39	Cf-249	0.0034	0.073	0.0059	NA	U
EPASED39	Cm-243/Cm-244	0	0.0061	0.0012	0.0443	U
EPASED39	Cm-245/Cm-246	0.003	0.0027	0.0018	0.0401	J
EPASED39	Cm-247/Cm-248	0.00099	0.0027	0.00099	0.0306	U
EPASED39	Co-60	0.0046	0.02	0.0054	0.028	U
EPASED39	Cs-134	0.001	0.047	0.014	0.0864	U
EPASED39	Cs-137	0.0525	0.013	0.0063	0.207	J
EPASED39	Eu-152	0.0005	0.041	0.012	0.0566	U
EPASED39	Eu-154	0.008	0.11	0.034	0.15	U
EPASED39	Eu-155	0.063	0.036	0.015	0.231	J
EPASED39	H-3	0.071	0.063	0.02	11.9	J
EPASED39	Ho-166m	0.0083	0.028	0.007	0.0432	U
EPASED39	K-40	21.4	0.19	0.66	32.4	J
EPASED39	Na-22	-0.0013	0.025	0.0073	0.037	U
EPASED39	Nb-94	0.0041	0.016	0.0031	0.0214	U
EPASED39	Np-236	0.0062	0.033	0.0099	0.047	U
EPASED39	Np-239	-0.009	0.092	0.028	0.139	U
EPASED39	Pa-231	0.16	0.63	0.19	0.936	U
EPASED39	Pb-212	1.13	0.023	0.035	2.69	
EPASED39	Pb-214	0.816	0.027	0.036	1.7	J
EPASED39	Pu-236	-0.0022	0.0066	0.0012	7.79	U
EPASED39	Pu-238	0.0006	0.0052	0.0013	0.0415	U
EPASED39	Pu-239/Pu-240	0.0034	0.0015	0.0014	0.0404	J
EPASED39	Pu-244	0.00056	0.0015	0.00056	0.0313	U
EPASED39	Rn-220	0.995	0.023	0.09	NA	J
EPASED39	Rn-222	0.805	0.027	0.047	NA	
EPASED39	Sb-125	0.0938	0.042	0.0095	0.354	J
EPASED39	Sn-126	0.0026	0.013	0.0038	0.0237	U
EPASED39	Sr-90	-0.0009	0.059	0.017	0.485	U
EPASED39	Te-125m	0.0217	0.0097	0.0022	0.0838	J
EPASED39	Th-228	1.02	0.011	0.055	3.98	
EPASED39	Th-229	0.004	0.0074	0.0025	0.145	J
EPASED39	Th-230	0.732	0.009	0.042	2.2	
EPASED39	Th-232	0.966	0.003	0.053	3.1	

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED39	Th-234	1.27	0.17	0.082	3.19	R
EPASED39	Tl-208	0.36	0.019	0.016	0.937	
EPASED39	Tm-171	-1.8	6.2	1.9	72.4	U
EPASED39	U-233/U-234	0.705	0.003	0.04	2.02	
EPASED39	U-235/U-236	0.0424	0.0035	0.0076	0.151	J
EPASED39	U-238	0.695	0.008	0.04	1.8	
EPASED40	Ac-227	0.148	0.13	0.051	0.217	J
EPASED40	Ac-228	1.29	0.1	0.051	2.4	J
EPASED40	Ag-108	-0.00083	0.0019	0.00057	NA	UJ
EPASED40	Ag-108m	-0.0089	0.02	0.0061	NA	UJ
EPASED40	Am-241	0.0016	0.0077	0.0021	0.0454	U
EPASED40	Ba-133	-0.115	0.033	0.012	NA	R
EPASED40	Ba-137m	0.0255	0.02	0.0063	NA	J
EPASED40	Bi-212	0.959	0.15	0.084	2.15	J
EPASED40	Bi-214	0.907	0.033	0.035	1.59	
EPASED40	Cd-113m	-21	49	15	3030	U
EPASED40	Cf-249	-0.074	0.089	0.027	NA	UL
EPASED40	Cm-243/Cm-244	-0.0016	0.014	0.0037	0.0443	U
EPASED40	Cm-245/Cm-246	0.0021	0.0028	0.0015	0.0401	U
EPASED40	Cm-247/Cm-248	0.002	0.0028	0.0014	0.0306	U
EPASED40	Co-60	0.0023	0.022	0.0065	0.028	U
EPASED40	Cs-134	0.0176	0.072	0.0064	0.0864	U
EPASED40	Cs-137	0.027	0.021	0.0067	0.207	J
EPASED40	Eu-152	0.006	0.051	0.015	0.0566	U
EPASED40	Eu-154	-0.048	0.13	0.038	0.15	U
EPASED40	Eu-155	0.108	0.058	0.025	0.231	J
EPASED40	H-3	0.061	0.06	0.019	11.9	J
EPASED40	Ho-166m	0.0117	0.033	0.0087	0.0432	U
EPASED40	K-40	22.9	0.15	0.7	32.4	J
EPASED40	Na-22	0	0.028	0.0056	0.037	U
EPASED40	Nb-94	0.0062	0.019	0.0056	0.0214	U
EPASED40	Np-236	-0.006	0.044	0.013	0.047	U
EPASED40	Np-239	0.019	0.12	0.035	0.139	U
EPASED40	Pa-231	0.03	0.66	0.2	0.936	U
EPASED40	Pb-212	1.48	0.03	0.046	2.69	
EPASED40	Pb-214	0.954	0.034	0.043	1.7	J
EPASED40	Pu-236	-0.0005	0.0052	0.0011	7.79	U
EPASED40	Pu-238	0.0024	0.011	0.0031	0.0415	U

Table A.2
Analytical Results Summary
Phase I Sediment Samples

Sample Identification	Analyte Name	Activity	MDC	TPU	RTL	Flag
EPASED40	Pu-239/Pu-240	-0.0012	0.011	0.0023	0.0404	U
EPASED40	Pu-244	0	0.0033	0.0014	0.0313	U
EPASED40	Rn-220	1.22	0.03	0.096	NA	
EPASED40	Rn-222	0.931	0.033	0.056	NA	
EPASED40	Sb-125	0.132	0.054	0.013	0.354	J
EPASED40	Sn-126	0.0002	0.021	0.0064	0.0237	U
EPASED40	Sr-90	-0.005	0.068	0.019	0.485	U
EPASED40	Tc-99	0.059	0.073	0.023	0.0838	J
EPASED40	Te-125m	0.0305	0.013	0.003	3.98	J
EPASED40	Th-228	1.14	0.011	0.058	0.145	
EPASED40	Th-229	0.0085	0.0019	0.0025	2.2	J
EPASED40	Th-230	0.813	0.01	0.044	3.1	
EPASED40	Th-232	1.06	0.007	0.054	3.19	
EPASED40	Th-234	1.38	0.27	0.096	0.937	R
EPASED40	Tl-208	0.517	0.024	0.022	72.4	
EPASED40	Tm-171	-16.6	11	3.5	2.02	R
EPASED40	U-233/U-234	0.855	0.004	0.05	0.151	K
EPASED40	U-235/U-236	0.0508	0.0049	0.0098	1.8	J
EPASED40	U-238	0.804	0.004	0.048	0.217	K

Notes:

Reporting units in pCi/g.

MDC - minimum detectable concentration

pCi/g - picocuries per gram

RTL - Radiological Trigger Levels

TPU - total propagated uncertainty

J - The analyte was detected at the reported concentration; the quantitation is an estimate.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration, which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

Table A.3
Parent and Field Duplicate Results Summary
Phase I Sediment Sampling

Sample Identification	Parent Sample					Sample Identification	Field Duplicate Sample				
	Analyte Name	Activity	MDC	TPU	Flag		Analyte Name	Activity	MDC	TPU	Flag
EPASED01	Ac-228	1.31	0.093	0.047	J	SED-DUP-001	Ac-228	1.35	0.12	0.052	
EPASED01	Ac-227	0.03	0.18	0.061	U	SED-DUP-001	Ac-227	0.033	0.14	0.064	U
EPASED01	Am-241	0.0097	0.01	0.004	J	SED-DUP-001	Am-241	-0.0019	0.015	0.0036	U
EPASED01	Ba-133	-0.114	0.03	0.01	R	SED-DUP-001	Ba-133	-0.0179	0.022	0.0067	UJ
EPASED01	Ba-137m	0.062	0.014	0.0067	J	SED-DUP-001	Ba-137m	0.0433	0.012	0.0053	J
EPASED01	Bi-212	0.956	0.15	0.089	J	SED-DUP-001	Bi-212	1.07	0.14	0.079	J
EPASED01	Bi-214	1.05	0.03	0.038		SED-DUP-001	Bi-214	0.891	0.031	0.034	
EPASED01	Cd-113m	0.4	50	15	U	SED-DUP-001	Cd-113m	-0.02	48	14	U
EPASED01	Cm-243/Cm-244	0.0159	0.011	0.005	J	SED-DUP-001	Cm-243/Cm-244	-0.001	0.014	0.0036	U
EPASED01	Cm-245/Cm-246	0.0048	0.0032	0.0024	J	SED-DUP-001	Cm-245/Cm-246	0.0014	0.01	0.0025	U
EPASED01	Cm-247/Cm-248	-0.0023	0.014	0.0031	U	SED-DUP-001	Cm-247/Cm-248	0.0013	0.0036	0.0013	U
EPASED01	Co-60	0.0027	0.021	0.0045	U	SED-DUP-001	Co-60	0.0028	0.019	0.0053	U
EPASED01	Cs-134	0.011	0.059	0.0047	U	SED-DUP-001	Cs-134	-0.001	0.058	0.018	U
EPASED01	Cs-137	0.0655	0.015	0.0071	J	SED-DUP-001	Cs-137	0.0458	0.013	0.0056	J
EPASED01	Eu-152	0.007	0.028	0.017	U	SED-DUP-001	Eu-152	-0.00009	0.044	0.013	U
EPASED01	Eu-154	-0.05	0.13	0.038	U	SED-DUP-001	Eu-154	-0.024	0.12	0.036	U
EPASED01	Eu-155	0.089	0.037	0.015	J	SED-DUP-001	Eu-155	0.104	0.041	0.017	
EPASED01	H-3	0.059	0.062	0.02	J	SED-DUP-001	H-3	-0.039	0.21	0.06	UL
EPASED01	Ho-166m	0.0119	0.03	0.0092	U	SED-DUP-001	Ho-166m	0.0039	0.028	0.0042	U
EPASED01	K-40	21.1	0.17	0.65	J	SED-DUP-001	K-40	21.4	0.18	0.66	
EPASED01	Na-22	0.001	0.025	0.0074	U	SED-DUP-001	Na-22	0.0003	0.027	0.0081	U

Table A.3
Parent and Field Duplicate Results Summary
Phase I Sediment Sampling

Sample Identification	Parent Sample					Sample Identification	Field Duplicate Sample				
	Analyte Name	Activity	MDC	TPU	Flag		Analyte Name	Activity	MDC	TPU	Flag
EPASED01	Nb-94	0.0115	0.017	0.0053	J	SED-DUP-001	Nb-94	0.006	0.017	0.0051	U
EPASED01	Np-236	-0.009	0.037	0.011	U	SED-DUP-001	Np-236	0.0006	0.037	0.011	U
EPASED01	Np-239	-0.002	0.11	0.032	U	SED-DUP-001	Np-239	-0.003	0.1	0.03	U
EPASED01	Pa-231	-0.01	0.71	0.21	U	SED-DUP-001	Pa-231	-0.01	0.69	0.21	U
EPASED01	Pb-212	1.51	0.029	0.062		SED-DUP-001	Pb-212	1.65	0.028	0.051	
EPASED01	Pb-214	1.18	0.033	0.04	J	SED-DUP-001	Pb-214	0.97	0.033	0.043	
EPASED01	Pu-236	-0.0062	0.011	0.0027	UL	SED-DUP-001	Pu-236	0	0.0049	0.0012	U
EPASED01	Pu-238	0.0015	0.0088	0.0024	U	SED-DUP-001	Pu-238	0.0005	0.0085	0.0023	U
EPASED01	Pu-239/Pu-240	0.0044	0.0068	0.0024	J	SED-DUP-001	Pu-239/Pu-240	0.0027	0.0015	0.0012	J
EPASED01	Pu-244	0.0015	0.002	0.001	U	SED-DUP-001	Pu-244	0.0027	0.0015	0.0012	J
EPASED01	Sb-125	0.151	0.047	0.014	J	SED-DUP-001	Sb-125	0.138	0.05	0.012	J
EPASED01	Sn-126	-0.0003	0.022	0.0065	U	SED-DUP-001	Sn-126	0.0069	0.015	0.0047	U
EPASED01	Sr-90	-0.025	0.071	0.02	U	SED-DUP-001	Sr-90	0.046	0.055	0.017	J
EPASED01	Tc-99	0.028	0.071	0.021	U	SED-DUP-001	Tc-99	0.026	0.082	0.025	U
EPASED01	Th-228	1.53	0.013	0.079	K	SED-DUP-001	Th-228	1.27	0.014	0.067	K
EPASED01	Th-229	0.0085	0.0023	0.0027	J	SED-DUP-001	Th-229	0.0074	0.013	0.0046	J
EPASED01	Th-230	1.02	0.004	0.057	K	SED-DUP-001	Th-230	1.06	0.01	0.058	K
EPASED01	Th-232	1.32	0.01	0.07	K	SED-DUP-001	Th-232	1.25	0.004	0.067	K
EPASED01	Th-234	2.18	0.18	0.11	R	SED-DUP-001	Th-234	2.43	0.19	0.12	R
EPASED01	Tl-208	0.472	0.021	0.019		SED-DUP-001	Tl-208	0.539	0.021	0.021	
EPASED01	Tm-171	-0.1	6.9	2.1	U	SED-DUP-001	Tm-171	0.6	5.2	1.6	U

Table A.3
Parent and Field Duplicate Results Summary
Phase I Sediment Sampling

Sample Identification	Parent Sample					Sample Identification	Field Duplicate Sample				
	Analyte Name	Activity	MDC	TPU	Flag		Analyte Name	Activity	MDC	TPU	Flag
EPASED01	U-233/U-234	1.5	0.013	0.076		SED-DUP-001	U-233/U-234	1.73	0.007	0.083	
EPASED01	U-235/U-236	0.061	0.011	0.01	J	SED-DUP-001	U-235/U-236	0.092	0.003	0.011	
EPASED01	U-238	1.39	0.003	0.071		SED-DUP-001	U-238	1.57	0.007	0.077	
EPASED02	Ac-228	1.38	0.11	0.053	J	SED-DUP-002	Ac-228	1.38	0.12	0.054	J
EPASED02	Ac-227	0.023	0.18	0.054	U	SED-DUP-002	Ac-227	0.03	0.18	0.072	U
EPASED02	Am-241	0.0037	0.0087	0.0027	J	SED-DUP-002	Am-241	0.0068	0.0062	0.0027	J
EPASED02	Ba-133	-0.128	0.033	0.012	R	SED-DUP-002	Ba-133	-0.0294	0.024	0.0076	R
EPASED02	Ba-137m	0.0588	0.015	0.0071	J	SED-DUP-002	Ba-137m	0.0683	0.014	0.007	J
EPASED02	Bi-212	1.11	0.17	0.11		SED-DUP-002	Bi-212	1.09	0.15	0.087	J
EPASED02	Bi-214	0.914	0.032	0.036		SED-DUP-002	Bi-214	0.981	0.032	0.037	
EPASED02	Cd-113m	0	51	8.5	U	SED-DUP-002	Cd-113m	-4	51	15	U
EPASED02	Cm-243/Cm-244	0.0046	0.012	0.0037	U	SED-DUP-002	Cm-243/Cm-244	0.0099	0.0061	0.0032	J
EPASED02	Cm-245/Cm-246	-0.0011	0.0098	0.002	U	SED-DUP-002	Cm-245/Cm-246	0.0031	0.0077	0.0024	J
EPASED02	Cm-247/Cm-248	0	0.0028	0.0012	U	SED-DUP-002	Cm-247/Cm-248	-0.001	0.0095	0.0019	U
EPASED02	Co-60	0.0044	0.02	0.0059	U	SED-DUP-002	Co-60	0.0008	0.023	0.0013	U
EPASED02	Cs-134	0.0056	0.067	0.0023	U	SED-DUP-002	Cs-134	0.0097	0.061	0.0063	U
EPASED02	Cs-137	0.0622	0.016	0.0076	J	SED-DUP-002	Cs-137	0.0722	0.015	0.0074	J
EPASED02	Eu-152	0.0007	0.05	0.0019	U	SED-DUP-002	Eu-152	-0.018	0.049	0.015	U
EPASED02	Eu-154	0.014	0.12	0.019	U	SED-DUP-002	Eu-154	0.008	0.13	0.014	U
EPASED02	Eu-155	0.12	0.055	0.024	J	SED-DUP-002	Eu-155	0.11	0.039	0.017	J
EPASED02	H-3	0.049	0.064	0.02	J	SED-DUP-002	H-3	0.073	0.064	0.021	J

Table A.3
Parent and Field Duplicate Results Summary
Phase I Sediment Sampling

Sample Identification	Parent Sample					Sample Identification	Field Duplicate Sample				
	Analyte Name	Activity	MDC	TPU	Flag		Analyte Name	Activity	MDC	TPU	Flag
EPASED02	Ho-166m	0.0016	0.024	0.0093	U	SED-DUP-002	Ho-166m	0.018	0.033	0.012	J
EPASED02	K-40	19.9	0.15	0.61	J	SED-DUP-002	K-40	21.1	0.17	0.65	J
EPASED02	Na-22	0.0053	0.025	0.0076	U	SED-DUP-002	Na-22	0.0006	0.031	0.0091	U
EPASED02	Nb-94	-0.0002	0.018	0.0053	U	SED-DUP-002	Nb-94	0.0047	0.018	0.0041	U
EPASED02	Np-236	-0.008	0.044	0.013	U	SED-DUP-002	Np-236	-0.007	0.038	0.011	U
EPASED02	Np-239	0.034	0.11	0.032	U	SED-DUP-002	Np-239	0.0004	0.11	0.033	U
EPASED02	Pa-231	0.077	0.79	0.064	U	SED-DUP-002	Pa-231	0.02	0.73	0.22	U
EPASED02	Pb-212	1.59	0.028	0.049		SED-DUP-002	Pb-212	1.74	0.027	0.071	
EPASED02	Pb-214	0.958	0.031	0.043	J	SED-DUP-002	Pb-214	1.11	0.032	0.039	J
EPASED02	Pu-236	-0.001	0.009	0.0024	U	SED-DUP-002	Pu-236	0.001	0.0053	0.0015	U
EPASED02	Pu-238	0.0021	0.0028	0.0015	U	SED-DUP-002	Pu-238	0.0024	0.0035	0.0013	J
EPASED02	Pu-239/Pu-240	0.0031	0.0097	0.0029	U	SED-DUP-002	Pu-239/Pu-240	0.0038	0.0013	0.0013	J
EPASED02	Pu-244	0.001	0.0028	0.001	U	SED-DUP-002	Pu-244	-0.00047	0.0035	0.00053	U
EPASED02	Sb-125	0.127	0.052	0.012	J	SED-DUP-002	Sb-125	0.143	0.045	0.013	J
EPASED02	Sn-126	0.0043	0.019	0.0058	U	SED-DUP-002	Sn-126	-0.0002	0.02	0.006	U
EPASED02	Sr-90	0.1	0.078	0.026	J	SED-DUP-002	Sr-90	0.027	0.077	0.023	U
EPASED02	Tc-99	0.048	0.076	0.023	J	SED-DUP-002	Tc-99	0.049	0.078	0.024	J
EPASED02	Th-228	1.35	0.022	0.068		SED-DUP-002	Th-228	1.22	0.011	0.061	
EPASED02	Th-229	0.0035	0.0024	0.0018	J	SED-DUP-002	Th-229	0.0039	0.0087	0.0028	J
EPASED02	Th-230	0.87	0.008	0.047		SED-DUP-002	Th-230	0.86	0.003	0.046	
EPASED02	Th-232	1.44	0.008	0.071		SED-DUP-002	Th-232	1.25	0.003	0.063	

Table A.3
Parent and Field Duplicate Results Summary
Phase I Sediment Sampling

Sample Identification	Parent Sample					Sample Identification	Field Duplicate Sample				
	Analyte Name	Activity	MDC	TPU	Flag		Analyte Name	Activity	MDC	TPU	Flag
EPASED02	Th-234	1.58	0.26	0.097	R	SED-DUP-002	Th-234	1.72	0.19	0.1	R
EPASED02	Tl-208	0.52	0.021	0.021		SED-DUP-002	Tl-208	0.542	0.022	0.022	
EPASED02	Tm-171	-13.8	11	3.4	R	SED-DUP-002	Tm-171	0.2	4.6	1.4	U
EPASED02	U-233/U-234	0.814	0.007	0.044		SED-DUP-002	U-233/U-234	0.866	0.003	0.047	
EPASED02	U-235/U-236	0.0355	0.0032	0.0066	J	SED-DUP-002	U-235/U-236	0.0506	0.0034	0.0083	J
EPASED02	U-238	0.885	0.003	0.047		SED-DUP-002	U-238	0.906	0.003	0.049	

Notes:

Reporting units in picocuries per gram.

ID - identification

MDC - minimum detectable concentration

TPU - total propagated uncertainty

J - The analyte was detected at the reported concentration; the quantitation is an estimate.

K - Analyte present. Reported value may be biased high. Actual value is expected to be lower.

L - Analyte present. Reported value may be biased low. Actual value is expected to be higher.

R - The result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria.

U - Not considered detected. The associated number is the reported concentration.

UJ - Not considered detected. The associated number is the reported concentration, which may be inaccurate.

UL - Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

Table A.4
Rinsate and Source Comparison Summary
Phase I Sediment Sampling

Sample Type	Sample Identification	H-3			U-233/ U234			U-235/ U236			U-238		
		Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU	Activity	MDC	TPU
Rinsate	SED-R-001	4	130	39	0.0033	0.014	0.0059	0.0024	0.0066	0.0024	0.006	0.014	0.0059
Source	SED-S-001	32	140	42	-0.0006	0.021	0.0065	-0.0049	0.023	0.0034	0.0059	0.014	0.0058
Rinsate	SED-R-002	37	140	41	-0.0043	0.022	0.0061	-0.0025	0.024	0.0044	0.0004	0.019	0.0058
Source	SED-S-002	49	130	39	0.0032	0.024	0.0078	0.0028	0.0076	0.0028	0.0013	0.017	0.0055
Rinsate	SED-R-003	14	140	42	0.0018	0.019	0.0064	0.0025	0.0068	0.0025	0.0024	0.019	0.0061
Source	SED-S-003	22	140	40	-0.0104	0.029	0.0069	0.003	0.0082	0.003	-0.0077	0.029	0.0069
Rinsate	SED-R-004	34	130	40	-0.0035	0.021	0.006	0.0085	0.0077	0.0049	-0.0009	0.0062	0.0039
Source	SED-S-004	45	130	41	0.0044	0.0057	0.0056	-0.0026	0.019	0.0026	0.0008	0.0057	0.0042
Rinsate	SED-R-005	39	140	42	-0.0103	0.028	0.0069	0.0052	0.019	0.0052	0.0089	0.019	0.0071
Source	SED-S-005	53	140	42	0.0116	0.006	0.007	0	0.02	0.0039	-0.0011	0.024	0.0066
Rinsate	SED-R-006	27	140	41	0.0052	0.021	0.0074	0.0028	0.0075	0.0028	0.0012	0.006	0.0044
Source	SED-S-006	71	140	42	0.0083	0.015	0.0069	0	0.024	0.0052	0.0068	0.0056	0.0055
Rinsate	SED-R-007	51	140	42	0.0139	0.019	0.0081	0.0025	0.023	0.0056	-0.0077	0.022	0.0049
Source	SED-S-007	59	130	40	-0.0013	0.0061	0.0045	0	0.0076	0.0028	0.0036	0.0061	0.005
Rinsate	SED-R-008	50	130	39	0.0138	0.02	0.0083	0.0025	0.018	0.0043	0.0265	0.021	0.0097
Source	SED-S-008	32	140	41	-0.0044	0.03	0.0083	0.0075	0.0067	0.0043	-0.0057	0.03	0.0077
Rinsate	SED-R-009	27	140	42	0.0102	0.015	0.0071	0.0051	0.0069	0.0036	0.0046	0.015	0.0058
Source	SED-S-009	32	130	40	0.0101	0.019	0.0077	0.0051	0.019	0.0051	0.0005	0.025	0.0071
Rinsate	SED-R-010	49	120	37	0.0036	0.0054	0.0053	0.0025	0.0067	0.0025	0.0006	0.013	0.0047

Notes:

Reporting units in picocuries per liter.

H-3 - tritium

MDC - minimum detectable concentration

TPU - total propagated uncertainty

U - uranium

ATTACHMENT 2

Boring Logs

The boring logs are provided in a separate pdf on SharePoint due to size restrictions.