TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-26495-1
TestAmerica Sample Delivery Group: SL2797
Client Project/Site: F17-062

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600, MS H8-41
Richland, Washington 99352

Attn: Mr. Scot Fitzgerald

Authorized for release by:
2/26/2018 11:53:01 AM

Jayna Awalt, Project Manager II
(314)298-8566
jayna.awalt@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-26495-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
February 26, 2018
Attention: Scot Fitzgerald

SDG	: SL2797
Number of Samples	: 18 samples
Sample Matrix	: Soil
Data Deliverable	: Summary
Date SDG Closed	: January 25, 2018

II. Introduction

On January 24 and 25, 18 samples were received by TestAmerica - St. Louis for analysis. The samples were received within temperature criteria. See the COC and receipt checklists for documentation of any variations on receipt conditions and temperature. Upon receipt, samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: F17-062

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with an LCS/LCS duplicate.

Note: For Metals analyses, per standard practice, all 6020 water and soil samples are initially prepared at 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner. These dilutions do not necessitate a narrative note; however, they are flagged “D” due to a limitation in the LIMS.

For solid matrices, all Metals analyses (including Hg) use a Standard Reference Material for the Laboratory Control Sample (LCS). Certificate for this source material may be obtained from TASL.

For Anion analysis, samples have been started at a 2x dilution per CHPRC direction. The samples are flagged accordingly with a “D” flag if sample concentration is above the MDL/RL. Non-conformance will be included in the below section only if dilution is greater than 2x.

For WTPH methods, the lab utilizes method 8015B. Per CHPRC direction, the method name in the electronic data has been modified to read WTPH in the place of 8015B.

Per CHPRC direction, due to the short hold times for Nitrate, Nitrite and Phosphate by IC (48 hours) as well as pH analysis (24 hours), a SIR request is not needed when samples are run outside 1x hold but within 2x hold. A narrative comment will be included below if a sample is run outside the lab-specified hold time for waters.

For extractable and volatile organic analyses, several analytes are considered poor performers and will not meet CHPRC QC limits. Per CHPRC direction, the lab’s statistical limits have been reported. Excursions outside these statistical limits will include a non-conformance in the sections below.

Job ID: 160-26495-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

IV. Definitions

QCBLK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike
DUP- Laboratory Duplicate
MS- Matrix Spike
MSD- Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

The following data qualifiers may be applicable to the results in this report, as appropriate.

- **B** - For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- **B** - For organic analyses, Method Blank contamination. The Method Blank contains the target analyte above the MDL/RL and Method Blank is greater than 5% of the sample concentration.
- **B** - For inorganics and radiochemistry, Method Blank reported above the MDC/MDL.
- **J** - For organic analyses, the sample is estimated and less than the RL. If on Method Blank, indicates Method Blank contamination.
- **C** - For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL/RL and Method Blank concentration is greater than 5% of the sample concentration.
- **D** - For all analyses, the sample result was obtained from the analysis of a dilution. For ICPMS Metals analyses, per standard practice, all samples are initially prepared at a 2x dilution. This standard dilution does not affect reporting limits as MDL studies are also prepared in the same manner and will not be narrated below. Only dilutions above 2x will be narrated and considered a true dilution for these samples.
- **N** - For inorganics, rad and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- **T** - For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.
- **o** - For all analyses, the LCS (LCSD) recoveries are outside QC limits.
- **P -** For organic analyses (PCB/Pests only), the aroclor target analyte has greater than 25% difference for detected concentrations between the two GC columns.
- **X-** Organics and Anions IC - Sample concentration over calibration and/or surrogate recovery outside QC limits.
- **X-** Inorganics - The analyte present in the original sample is > 4x the spike concentration.
- **X-** Radiochemistry - Carrier or Tracer recovery is outside limits.
- **Z-** Sample was prepped or analyzed beyond the specified sample holding time.
- **y -** RPD is outside established limits.

WTPH Diesel

Batch: 349041

The closing CCV surrogate %D was greater than 20%; however, the recovery was within the QC limits range, and therefore is acceptable. (CCV 160-349041/21)

ICPMS Metals

Batch: 352192

Nickel was detected in method blank MB 160-348794/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "B". If the associated sample reported a result above the MDL and/or RL and MB is greater than 5% the sample concentration, the result has been flagged "C".

The low level check (CCVL) was outside upper QC limits for Barium. The concentration of this analyte in the samples was at such a high level as to make the CCVL unnecessary. (CCVL 160-352192/38)

Due to the high concentration of Aluminum, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-348794 and

Job ID: 160-26495-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

analytical batch 160-352192 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-26494-A-14-B MS) and (160-26494-A-14-C MSD)

The matrix spike duplicate (MSD) recovery for preparation batch 160-348794 and analytical batch 160-352192 was outside control limits for Manganese. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-26494-A-14-B MS) and (160-26494-A-14-C MSD) This analyte has been qualified accordingly with an "N" flag in the associated samples.

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution: B3H0F8 (160-26495-1), B3H0H1 (160-26495-2), B3H0H4 (160-26495-3), B3H0H6 (160-26495-4), B3H0H9 (160-26495-5), B3H0K0 (160-26495-6), B3H0K3 (160-26495-7), B3H0K6 (160-26495-8), B3H0K9 (160-26495-9), B3H0M0 (160-26513-1), B3H0M3 (160-26513-2), B3H0M6 (160-26513-3), B3H0M9 (160-26513-4), B3H180 (160-26513-5), (160-26494-A-14-A), (160-26494-A-14-B MS), (160-26494-A-14-C MSD) and (160-26494-A-14-A SD). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Batch: 352193

Due to the high concentration of Aluminum, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-348803 and analytical batch 160-352193 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-26513-A-6-B MS) and (160-26513-A-6-C MSD)

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when run at a lesser dilution: B3H183 (160-26513-6), B3H185 (160-26513-7), B3H188 (160-26513-8), B3H191 (160-26513-9), (160-26513-A-6-B MS), (160-26513-A-6-C MSD) and (160-26513-A-6-A SD). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

Batch: 350531

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution: B3H0F8 (160-26495-1), B3H0H1 (160-26495-2), B3H0H4 (160-26495-3), B3H0H6 (160-26495-4), B3H0H9 (160-26495-5), B3H0K0 (160-26495-6), B3H0K3 (160-26495-7), B3H0K6 (160-26495-8), B3H0K9 (160-26495-9), B3H0M0 (160-26513-1), B3H0M3 (160-26513-2), B3H0M6 (160-26513-3), B3H0M9 (160-26513-4), B3H180 (160-26513-5), (160-26494-A-14-D), (160-26494-A-14-E MS), (160-26494-A-14-F MSD) and (160-26494-A-14-D SD). Elevated reporting limits (RLs) are provided. This analyte has been qualified accordingly with a "D" flag in the associated samples.

Batch: 350656

The following samples were diluted due to the abundance of non-target analytes. Samples are high in salts which can cause instrument and QC failures when ran at a lesser dilution: B3H183 (160-26513-6), B3H185 (160-26513-7), B3H188 (160-26513-8), B3H191 (160-26513-9), (160-26513-A-6-E MS), (160-26513-A-6-F MSD) and (160-26513-A-6-D SD). Elevated reporting limits (RLs) are provided. This analyte has been qualified accordingly with a "D" flag in the associated samples.

Total Cyanide

Batch: 350313

Reanalysis of the following samples in Cyanide preparation batch 160-350078 and analytical batch 160-350313 were performed outside of the analytical holding time, but within two times hold, due to an instrument error that resulted in no reportable data from the initial, in hold run: B3H180 (160-26513-5), B3H183 (160-26513-6), B3H185 (160-26513-7), B3H188 (160-26513-8) and B3H191 (160-26513-9). Project manager was not notified until time of reporting.

There were no observations or non-conformances associated with the following methods:

Semivolatiles

Job ID: 160-26495-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Mercury
Ammonia as N

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager or designee and the laboratory's client services representative as verified by their signature on this report.

Reviewed and approved:

Jayna Awalt
St. Louis Project Manager

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-26495-1
SDG Number: SL2797

Login Number: 26495
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-365	PAGE 1 OF 1
COLLECTOR: Ed Kauer, CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9853, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-373	FIELD LOGBOOK NO.: HNF-N-645 6-76	ACTUAL SAMPLE DEPTH: 2.1-4.2	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 77130361 4090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0F6~~ ie
JAN 23 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0F8	N/A	SOIL	1-23-18	0801	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, CHPRC	JAN 23 2018 1200	FEDEX	
FED EX		Jill Clark Jill Clark	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-016
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54081 TRVL NUM = TRVL-18-016 A-6003-618 (REV 3)

64 lbs.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-368	PAGE 1 OF 1
COLLECTOR: Ed Kauer CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9853, Shallow Sample 2	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-373	FIELD LOGBOOK NO.: HNF-N-645 6 - 76	ACTUAL SAMPLE DEPTH: 4.2-6.4	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771303614090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0E9~~
JAN 2 3 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0H1	N/A	SOIL	1-23-18	0910	✓	✓	✓	✓

~~64 lbs.~~
1-23-18

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1.24.18 0945

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-016
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54082 TRVL NUM = TRVL-18-016 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-371	PAGE 1 OF 1
COLLECTOR: Ed Kauer CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9853, Shallow Sample 3	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-373	FIELD LOGBOOK NO.: HNF-N-645 6 - 76	ACTUAL SAMPLE DEPTH: 6.4-8.0	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 7713 0361 4090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0H2~~ K
JAN 2 3 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0H4	N/A	SOIL	1-23-18	0818	✓	✓	✓	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 2 3 2018 1400	FEDEX	
FED EX		Jim Clarke Jim Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-016
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54083 TRVL NUM = TRVL-18-016 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-373	PAGE 1 OF 1
COLLECTOR: Ed Kauer CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9853, Shallow Sample & DUP 1-23-18	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-373	FIELD LOGBOOK NO.: HNF-N-645 6 -76	ACTUAL SAMPLE DEPTH: 2.1-4.2	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771303614090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0H2~~
JAN 2 3 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0H6	N/A	SOIL	1-23-18	0801	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 2 3 2018 1406	FEDEX	
FED EX		Jim Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-016
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54084 TRVL NUM = TRVL-18-016 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-376	PAGE 1 OF 1
COLLECTOR Ed Kauer CHPRC SL2797	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9853, Shallow Sample 4	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-373	FIELD LOGBOOK NO. HNF-N-645 6-76	ACTUAL SAMPLE DEPTH 8.0-10.0	PURCHASE ORDER/CHARGE CODE 303971	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 771303614090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0H7~~ PC
JAN 2 3 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0H9	N/A	SOIL	1-23-18	0819	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 2 3 2018	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-016
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54085 TRVL NUM = TRVL-18-016 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-387	PAGE 1 OF 1
COLLECTOR: Ed Kauer CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9854, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-373	FIELD LOGBOOK NO.: HNF-N-645 6-76	ACTUAL SAMPLE DEPTH: 1.8-4.4	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771303614090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H030~~
JAN 2 3 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0K0	N/A	SOIL	1-23-18	1002	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-017
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54092 TRVL NUM = TRVL-18-017 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-390	PAGE 1 OF 1
COLLECTOR: Ed Kauer CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9854, Shallow Sample 2	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-373	FIELD LOGBOOK NO.: HNF-N-645 6-76	ACTUAL SAMPLE DEPTH: 4.4-7.2 ft	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771303614090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0K1~~ [illegible]
JAN 23 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0K3	N/A	SOIL	1-23-18	~~1000~~ 1009 (1-23-18)	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 23 2018 1400	FEDEX	
FED EX		Jim Clarke Jill Clark	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-017
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54086 TRVL NUM = TRVL-18-017 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-393	PAGE 1 OF 1
COLLECTOR: Ed Kauer CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9854, Shallow Sample 3	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-373	FIELD LOGBOOK NO.: ~~HNF-N-645~~ 6 - 76	ACTUAL SAMPLE DEPTH: 7.2 - 8.0 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771303614090		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0K4~~
JAN 23 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0K6	N/A	SOIL	1-23-18	1010	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.24.18 0945

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-017
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54087 TRVL NUM = TRVL-18-017 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-396	PAGE 1 OF 1
COLLECTOR Ed Kauer CHPRC	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9854, Shallow Sample 4	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-373	FIELD LOGBOOK NO. HNF-N-645 6-76	ACTUAL SAMPLE DEPTH 8.0-10.1 ft	PURCHASE ORDER/CHARGE CODE 303971	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7713 0361 4090		

MATRIX*
A=Air
DL=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0K7~~
JAN 2 3 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B3H0K9	N/A	SOIL	1-23-18	1012	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer CHPRC	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-017
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54088 TRVL NUM = TRVL-18-017 A-6003-618 (REV 3)

IMPORTANT!
FedEx is closely monitoring the winter storms across the U.S. Learn More

FedEx ® Tracking

771303614090

Ship date:		Actual delivery:
Tue 1/23/2018		**Wed 1/24/2018 9:36 am**
Richland, WA US	**Delivered** *Signed for by: J.CLARKE*	EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 1/24/2018 - Wednesday		
9:36 am	Delivered	EARTH CITY, MO
7:53 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:46 am	At local FedEx facility	EARTH CITY, MO
5:39 am	At destination sort facility	BERKELEY, MO
4:55 am	Departed FedEx location	MEMPHIS, TN
12:23 am	Arrived at FedEx location	MEMPHIS, TN
- 1/23/2018 - Tuesday		
4:48 pm	Left FedEx origin facility	PASCO, WA
3:17 pm	Picked up	PASCO, WA
1:26 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771303614090	**Service**	FedEx Standard Overnight
Weight	64 lbs / 29.03 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	64 lbs / 29.03 kgs
Terms	Recipient	**Shipper reference**	GWS-373
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge
Standard transit	1/24/2018 by 3:00 pm		

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-26513-1
SDG Number: SL2797

Login Number: 26513
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-407	PAGE 1 OF 1
COLLECTOR: TIM CALLAWAY, CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9855, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-568	FIELD LOGBOOK NO.: HNF-N-645 6-77	ACTUAL SAMPLE DEPTH: 1.9-4.1	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0L8~~
JAN 24 2018

PRESERVATION	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days
TYPE OF CONTAINER	G/P	G/P
NO. OF CONTAINER(S)	1	1
VOLUME	250mL	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B3H0M0	N/A	SOIL	1-24-18	0811	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway T. Callaway	1/24/18 1045	Janelle Zunker CHPRC	JAN 24 2018 1045
Janelle Zunker CHPRC	JAN 24 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1.25.18 0910

SPECIAL INSTRUCTIONS
TRVL-18-018
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION | **DISPOSAL METHOD** | **DISPOSED BY** | **DATE/TIME**

PRINTED ON 11/29/2017 FSR ID = FSR54096 TRVL NUM = TRVL-18-018 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-410	PAGE 1 OF 1
COLLECTOR TIM CALLAWAY CHPRC SL2797	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9855, Shallow Sample 2	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-568	FIELD LOGBOOK NO. NF-N-645 6 - 77	ACTUAL SAMPLE DEPTH 4.1 - 6.3 ft	PURCHASE ORDER/CHARGE CODE 303971	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0M1~~ ie 1-24-18

PRESERVATION	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days
TYPE OF CONTAINER	G/P	G/P
NO. OF CONTAINER(S)	1	1
VOLUME	250mL	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B3H0M3	N/A	SOIL	1-24-18	0818	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway T. Callaway	1/24/18 1045	Janelle Zunke CHPRC	JAN 2 4 2018 1045
Janelle Zunke CHPRC	JAN 2 4 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clarke	1.25.18 0910

SPECIAL INSTRUCTIONS
TRVL-18-018
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54097 TRVL NUM = TRVL-18-018 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-413	PAGE 1 OF 1
COLLECTOR TIM CALLAWAY CHPRC SL2797	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9855, Shallow Sample 3	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-548	FIELD LOGBOOK NO. HNF-N-645 6 - 77	ACTUAL SAMPLE DEPTH 6.3 - 8.0 ft	PURCHASE ORDER/CHARGE CODE 303971	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. NIA		BILL OF LADING/AIR BILL NO. 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0M4~~ 1-24-18

PRESERVATION	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days
TYPE OF CONTAINER	G/P	G/P
NO. OF CONTAINER(S)	1	1
VOLUME	250mL	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B3H0M6	N/A	SOIL	1-24-18	0825	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway T. Callaway	1/24/18/1045	Janelle Zunker CHPRC	JAN 2 4 2018 1045
Janelle Zunker CHPRC	JAN 2 4 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.25.18 0910

SPECIAL INSTRUCTIONS
TRVL-18-018
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54098 TRVL NUM = TRVL-18-018 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-416	PAGE 1 OF 1
COLLECTOR TIM CALLAWAY CHPRC SL2797	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9855, Shallow Sample 4	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS-568	FIELD LOGBOOK NO. HNF-N-645 6 -77	ACTUAL SAMPLE DEPTH 8.0 - 10.0	PURCHASE ORDER/CHARGE CODE 303971	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H0M7~~ 1-24-18

PRESERVATION	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days
TYPE OF CONTAINER	G/P	G/P
NO. OF CONTAINER(S)	1	1
VOLUME	250mL	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B3H0M9	N/A	SOIL	1-24-18	0827	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway T. Callaway	1/24/18 1045	Janelle Zunker CHPRC	JAN 2 4 2018 1045
Janelle Zunker CHPRC	JAN 2 4 2018 1400	FEDEX	
FED EX		Jim Clark JIM CLARK	1.25.18 0910

SPECIAL INSTRUCTIONS
TRVL-18-018
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54099 TRVL NUM = TRVL-18-018 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-427	PAGE 1 OF 1
COLLECTOR TIM CALLAWAY CHPRC SL2797	COMPANY CONTACT FITZGERALD, SL	TELEPHONE NO. 373-7495	PROJECT COORDINATOR FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION C9856, Shallow Sample 1	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO. F17-062	ORIGINAL	
ICE CHEST NO. GWS 568	FIELD LOGBOOK NO. HNF-N-645 L-77	ACTUAL SAMPLE DEPTH 2.1-4.1 FT	PURCHASE ORDER/CHARGE CODE 303971	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7713 1558 2934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE FILE TO: B3H178~~
1-24-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H180	N/A	SOIL	1-24-18	0942	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway	1/24/18 1045	Janelle Zunker CHPRC	JAN 24 2018 1045
Janelle Zunker CHPRC	JAN 24 2018 1400	FEDEX	
FED EX		Jill Clarke	1.25.18 0910

SPECIAL INSTRUCTIONS
TRVL-18-019
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54103 TRVL NUM = TRVL-18-019 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-430	PAGE 1 OF 1
COLLECTOR: TIM CALLAWAY, CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9856, Shallow Sample 2	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GW05-568	FIELD LOGBOOK NO.: HNF-N-645 4 -77	ACTUAL SAMPLE DEPTH: 4.1 - 6.1 ft	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H181~~
1-24-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H183	N/A	SOIL	1-24-18	0950	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway	1/24/18 1045	Janelle Zunker CHPRC	JAN 24 2018 1045
Janelle Zunker CHPRC	JAN 24 2018 1400	FEDEX	
FED EX		Jill Clarke	1-25-18 0910

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-019
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54106 TRVL NUM = TRVL-18-019 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-432	PAGE 1 OF 1
COLLECTOR: TIM CALLAWAY, CHPRC SL 2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9856, Shallow Sample 2 DUP	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-568	FIELD LOGBOOK NO.: HNF-N-645 4-77	ACTUAL SAMPLE DEPTH: 4.1-6.1 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H181~~
in, 1-24-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H185	N/A	SOIL	1-24-18	0952	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway T. Callaway	1/24/18 1045	Janelle Zunker CHPRC	JAN 24 2018 1045
Janelle Zunker CHPRC	JAN 24 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1.25.18 0910

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-019
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/30/2017 FSR ID = FSR54107 TRVL NUM = TRVL-18-019 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-435	PAGE 1 OF 1
COLLECTOR: TIM CALLAWAY, CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9856, Shallow Sample 3	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GW5568	FIELD LOGBOOK NO.: HNF-N-645 40 - 77	ACTUAL SAMPLE DEPTH: 6.1-8.0 ft	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIL TO: B3H186~~ 1-24-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H188	N/A	SOIL	1-24-18	0955	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway	1/24/18 1045	Janelle Zunker CHPRC	JAN 24 2018 1045
Janelle Zunker CHPRC	JAN 24 2018 1400	FEDEX	
FED EX		Jim Clarke	1-25-18 0910

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS
TRVL-18-019
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54108 TRVL NUM = TRVL-18-019 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-438	PAGE 1 OF 1
COLLECTOR: TIM CALLAWAY CHPRC SL2797	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION: C9856, Shallow Sample 4	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-5168	FIELD LOGBOOK NO.: HNF-N-645 6-77	ACTUAL SAMPLE DEPTH: 8.0-10.0 FT	PURCHASE ORDER/CHARGE CODE: 303971	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 771315582934		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B3H189~~ 1-24-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	28 Days	28 Days	14 Days
TYPE OF CONTAINER	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1
VOLUME	250mL	60mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B3H191	N/A	SOIL	1-24-18	0957	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Tim Callaway T. Callaway	1/24/18/1045	Janelle Zunker CHPRC	JAN 24 2018 1045
Janelle Zunker CHPRC	JAN 24 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1.25.18 0910

SPECIAL INSTRUCTIONS
TRVL-18-019
(1) 7471_MERCURY_CV: COMMON (SOLIDS); 6020_METALS_ICPMS: COMMON {Aluminum, Barium, Cadmium, Chromium, Copper, Lead, Selenium}; 6020_METALS_ICPMS: COMMON (Add-on) {Antimony, Arsenic, Manganese, Nickel, Silver, Uranium};

FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/29/2017 FSR ID = FSR54109 TRVL NUM = TRVL-18-019 A-6003-618 (REV 3)

IMPORTANT!
FedEx is closely monitoring the winter storms across the U.S. Learn More

FedEx Tracking

771315582934

Ship date:		Actual delivery:
Wed 1/24/2018		**Thu 1/25/2018 9:03 am**
Richland, WA US	**Delivered** *Signed for by: R.CASTELLO*	EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 1/25/2018 - Thursday		
9:03 am	Delivered	EARTH CITY, MO
7:35 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:28 am	At local FedEx facility	EARTH CITY, MO
- 1/24/2018 - Wednesday		
4:50 pm	Left FedEx origin facility	PASCO, WA
3:17 pm	Picked up	PASCO, WA
2:16 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771315582934	**Service**	FedEx Standard Overnight
Weight	69 lbs / 31.3 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	69 lbs / 31.3 kgs
Terms	Recipient	**Shipper reference**	GWS-568
Packaging	Your Packaging	**Special handling section**	Deliver Weekday
Standard transit	1/25/2018 by 3:00 pm		

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
X	See case narrative notes for explanation of the 'X' flag
N	Recovery exceeds upper or lower control limits
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

General Chemistry

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.
Z	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SL
6020A	Metals (ICP/MS)	SW846	TAL SL
7471B	Mercury (CVAA)	SW846	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
9012B	Cyanide, Total andor Amenable	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-26495-1	B3H0F8	Soil	01/23/18 08:01	01/24/18 09:45
160-26495-2	B3H0H1	Soil	01/23/18 08:10	01/24/18 09:45
160-26495-3	B3H0H4	Soil	01/23/18 08:18	01/24/18 09:45
160-26495-4	B3H0H6	Soil	01/23/18 08:01	01/24/18 09:45
160-26495-5	B3H0H9	Soil	01/23/18 08:19	01/24/18 09:45
160-26495-6	B3H0K0	Soil	01/23/18 10:02	01/24/18 09:45
160-26495-7	B3H0K3	Soil	01/23/18 10:09	01/24/18 09:45
160-26495-8	B3H0K6	Soil	01/23/18 10:10	01/24/18 09:45
160-26495-9	B3H0K9	Soil	01/23/18 10:12	01/24/18 09:45
160-26513-1	B3H0M0	Soil	01/24/18 08:11	01/25/18 09:10
160-26513-2	B3H0M3	Soil	01/24/18 08:18	01/25/18 09:10
160-26513-3	B3H0M6	Soil	01/24/18 08:25	01/25/18 09:10
160-26513-4	B3H0M9	Soil	01/24/18 08:27	01/25/18 09:10
160-26513-5	B3H180	Soil	01/24/18 09:42	01/25/18 09:10
160-26513-6	B3H183	Soil	01/24/18 09:50	01/25/18 09:10
160-26513-7	B3H185	Soil	01/24/18 09:50	01/25/18 09:10
160-26513-8	B3H188	Soil	01/24/18 09:55	01/25/18 09:10
160-26513-9	B3H191	Soil	01/24/18 09:57	01/25/18 09:10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: B3H0F8 — **Lab Sample ID: 160-26495-1**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	02/01/18 10:11	02/06/18 12:53	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*150*	*N*	*ug/Kg*	☼	*2.69*		*02/01/18 10:11*	*02/06/18 12:53*	*1*
3-Penten-2-one, 4-methyl-	*250*	*N J*	*ug/Kg*	☼	*3.64*	*141-79-7*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
Unknown	*11000*	*N*	*ug/Kg*	☼	*4.01*		*02/01/18 10:11*	*02/06/18 12:53*	*1*
Unknown	*290*	*N*	*ug/Kg*	☼	*4.53*		*02/01/18 10:11*	*02/06/18 12:53*	*1*
n-Hexadecanoic acid	*150*	*N J*	*ug/Kg*	☼	*10.20*	*57-10-3*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
Erucic acid	*190*	*N J*	*ug/Kg*	☼	*12.83*	*112-86-7*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
Unknown	*210*	*N*	*ug/Kg*	☼	*13.47*		*02/01/18 10:11*	*02/06/18 12:53*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*47 - 125*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
2-Fluorobiphenyl (Surr)	*81*		*59 - 110*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
2-Fluorophenol (Surr)	*78*		*54 - 102*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
Nitrobenzene-d5 (Surr)	*74*		*44 - 120*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
Phenol-d5 (Surr)	*78*		*51 - 104*	*02/01/18 10:11*	*02/06/18 12:53*	*1*
Terphenyl-d14 (Surr)	*90*		*59 - 98*	*02/01/18 10:11*	*02/06/18 12:53*	*1*

Client Sample ID: B3H0H1 — **Lab Sample ID: 160-26495-2**
Date Collected: 01/23/18 08:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	340	48	ug/Kg	☼	02/01/18 10:11	02/06/18 13:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*290*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*02/01/18 10:11*	*02/06/18 13:20*	*1*
Unknown	*13000*	*N*	*ug/Kg*	☼	*4.02*		*02/01/18 10:11*	*02/06/18 13:20*	*1*
Unknown	*310*	*N*	*ug/Kg*	☼	*4.54*		*02/01/18 10:11*	*02/06/18 13:20*	*1*
Unknown	*220*	*N*	*ug/Kg*	☼	*12.84*		*02/01/18 10:11*	*02/06/18 13:20*	*1*
Unknown	*200*	*N*	*ug/Kg*	☼	*13.48*		*02/01/18 10:11*	*02/06/18 13:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*47 - 125*	*02/01/18 10:11*	*02/06/18 13:20*	*1*
2-Fluorobiphenyl (Surr)	*81*		*59 - 110*	*02/01/18 10:11*	*02/06/18 13:20*	*1*
2-Fluorophenol (Surr)	*80*		*54 - 102*	*02/01/18 10:11*	*02/06/18 13:20*	*1*
Nitrobenzene-d5 (Surr)	*78*		*44 - 120*	*02/01/18 10:11*	*02/06/18 13:20*	*1*
Phenol-d5 (Surr)	*82*		*51 - 104*	*02/01/18 10:11*	*02/06/18 13:20*	*1*
Terphenyl-d14 (Surr)	*92*		*59 - 98*	*02/01/18 10:11*	*02/06/18 13:20*	*1*

Client Sample ID: B3H0H4 — **Lab Sample ID: 160-26495-3**
Date Collected: 01/23/18 08:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	340	48	ug/Kg	☼	02/01/18 10:11	02/06/18 14:42	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*140*	*N*	*ug/Kg*	☼	*2.70*		*02/01/18 10:11*	*02/06/18 14:42*	*1*
3-Penten-2-one, 4-methyl-	*320*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*02/01/18 10:11*	*02/06/18 14:42*	*1*
Unknown	*12000*	*N*	*ug/Kg*	☼	*4.02*		*02/01/18 10:11*	*02/06/18 14:42*	*1*
Unknown	*250*	*N*	*ug/Kg*	☼	*4.54*		*02/01/18 10:11*	*02/06/18 14:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B3H0H4 — **Lab Sample ID: 160-26495-3**
Date Collected: 01/23/18 08:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.9**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
n-Hexadecanoic acid	200	N J	ug/Kg	☼	10.20	57-10-3	02/01/18 10:11	02/06/18 14:42	1
Unknown	150	N	ug/Kg	☼	13.48		02/01/18 10:11	02/06/18 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		47 - 125	02/01/18 10:11	02/06/18 14:42	1
2-Fluorobiphenyl (Surr)	81		59 - 110	02/01/18 10:11	02/06/18 14:42	1
2-Fluorophenol (Surr)	78		54 - 102	02/01/18 10:11	02/06/18 14:42	1
Nitrobenzene-d5 (Surr)	76		44 - 120	02/01/18 10:11	02/06/18 14:42	1
Phenol-d5 (Surr)	79		51 - 104	02/01/18 10:11	02/06/18 14:42	1
Terphenyl-d14 (Surr)	87		59 - 98	02/01/18 10:11	02/06/18 14:42	1

Client Sample ID: B3H0H6 — **Lab Sample ID: 160-26495-4**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	02/01/18 10:11	02/06/18 15:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	160	N	ug/Kg	☼	2.71		02/01/18 10:11	02/06/18 15:10	1
3-Penten-2-one, 4-methyl-	290	N J	ug/Kg	☼	3.65	141-79-7	02/01/18 10:11	02/06/18 15:10	1
Unknown	11000	N	ug/Kg	☼	4.02		02/01/18 10:11	02/06/18 15:10	1
Unknown	230	N	ug/Kg	☼	4.55		02/01/18 10:11	02/06/18 15:10	1
Unknown	160	N	ug/Kg	☼	13.48		02/01/18 10:11	02/06/18 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		47 - 125	02/01/18 10:11	02/06/18 15:10	1
2-Fluorobiphenyl (Surr)	81		59 - 110	02/01/18 10:11	02/06/18 15:10	1
2-Fluorophenol (Surr)	77		54 - 102	02/01/18 10:11	02/06/18 15:10	1
Nitrobenzene-d5 (Surr)	74		44 - 120	02/01/18 10:11	02/06/18 15:10	1
Phenol-d5 (Surr)	78		51 - 104	02/01/18 10:11	02/06/18 15:10	1
Terphenyl-d14 (Surr)	88		59 - 98	02/01/18 10:11	02/06/18 15:10	1

Client Sample ID: B3H0H9 — **Lab Sample ID: 160-26495-5**
Date Collected: 01/23/18 08:19 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	360	49	ug/Kg	☼	02/01/18 10:11	02/06/18 15:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	500	N J	ug/Kg	☼	3.65	141-79-7	02/01/18 10:11	02/06/18 15:37	1
Unknown	11000	N	ug/Kg	☼	4.02		02/01/18 10:11	02/06/18 15:37	1
Unknown	210	N	ug/Kg	☼	4.54		02/01/18 10:11	02/06/18 15:37	1
n-Hexadecanoic acid	350	N J	ug/Kg	☼	10.20	57-10-3	02/01/18 10:11	02/06/18 15:37	1
Unknown	210	N	ug/Kg	☼	13.48		02/01/18 10:11	02/06/18 15:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		47 - 125	02/01/18 10:11	02/06/18 15:37	1
2-Fluorobiphenyl (Surr)	77		59 - 110	02/01/18 10:11	02/06/18 15:37	1
2-Fluorophenol (Surr)	74		54 - 102	02/01/18 10:11	02/06/18 15:37	1
Nitrobenzene-d5 (Surr)	73		44 - 120	02/01/18 10:11	02/06/18 15:37	1
Phenol-d5 (Surr)	76		51 - 104	02/01/18 10:11	02/06/18 15:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B3H0H9 — **Lab Sample ID: 160-26495-5**
Date Collected: 01/23/18 08:19 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.7**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	81		59 - 98	02/01/18 10:11	02/06/18 15:37	1

Client Sample ID: B3H0K0 — **Lab Sample ID: 160-26495-6**
Date Collected: 01/23/18 10:02 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	350	49	ug/Kg	☼	02/01/18 10:11	02/06/18 16:04	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	220	N	ug/Kg	☼	2.70		02/01/18 10:11	02/06/18 16:04	1
3-Penten-2-one, 4-methyl-	660	N J	ug/Kg	☼	3.65	141-79-7	02/01/18 10:11	02/06/18 16:04	1
Unknown	12000	N	ug/Kg	☼	4.02		02/01/18 10:11	02/06/18 16:04	1
Unknown	270	N	ug/Kg	☼	4.54		02/01/18 10:11	02/06/18 16:04	1
n-Hexadecanoic acid	420	N J	ug/Kg	☼	10.21	57-10-3	02/01/18 10:11	02/06/18 16:04	1
Bromacil	160	N J	ug/Kg	☼	10.26	314-40-9	02/01/18 10:11	02/06/18 16:04	1
Unknown	290	N	ug/Kg	☼	13.48		02/01/18 10:11	02/06/18 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	74		47 - 125	02/01/18 10:11	02/06/18 16:04	1
2-Fluorobiphenyl (Surr)	77		59 - 110	02/01/18 10:11	02/06/18 16:04	1
2-Fluorophenol (Surr)	75		54 - 102	02/01/18 10:11	02/06/18 16:04	1
Nitrobenzene-d5 (Surr)	71		44 - 120	02/01/18 10:11	02/06/18 16:04	1
Phenol-d5 (Surr)	75		51 - 104	02/01/18 10:11	02/06/18 16:04	1
Terphenyl-d14 (Surr)	85		59 - 98	02/01/18 10:11	02/06/18 16:04	1

Client Sample ID: B3H0K3 — **Lab Sample ID: 160-26495-7**
Date Collected: 01/23/18 10:09 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	02/01/18 10:11	02/06/18 16:32	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	160	N	ug/Kg	☼	2.69		02/01/18 10:11	02/06/18 16:32	1
3-Penten-2-one, 4-methyl-	270	N J	ug/Kg	☼	3.65	141-79-7	02/01/18 10:11	02/06/18 16:32	1
Unknown	11000	N	ug/Kg	☼	4.02		02/01/18 10:11	02/06/18 16:32	1
Unknown	250	N	ug/Kg	☼	4.54		02/01/18 10:11	02/06/18 16:32	1
Hexadecane	180	N J	ug/Kg	☼	8.64	544-76-3	02/01/18 10:11	02/06/18 16:32	1
Heptadecane	250	N J	ug/Kg	☼	9.11	629-78-7	02/01/18 10:11	02/06/18 16:32	1
Octadecane	210	N J	ug/Kg	☼	9.55	593-45-3	02/01/18 10:11	02/06/18 16:32	1
Hexadecane, 2,6,10,14-tetramethyl-	200	N J	ug/Kg	☼	9.58	638-36-8	02/01/18 10:11	02/06/18 16:32	1
Nonadecane	190	N J	ug/Kg	☼	9.96	629-92-5	02/01/18 10:11	02/06/18 16:32	1
n-Hexadecanoic acid	340	N J	ug/Kg	☼	10.20	57-10-3	02/01/18 10:11	02/06/18 16:32	1
Eicosane	160	N J	ug/Kg	☼	10.36	112-95-8	02/01/18 10:11	02/06/18 16:32	1
Unknown	350	N	ug/Kg	☼	13.48		02/01/18 10:11	02/06/18 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		47 - 125	02/01/18 10:11	02/06/18 16:32	1
2-Fluorobiphenyl (Surr)	78		59 - 110	02/01/18 10:11	02/06/18 16:32	1
2-Fluorophenol (Surr)	67		54 - 102	02/01/18 10:11	02/06/18 16:32	1
Nitrobenzene-d5 (Surr)	69		44 - 120	02/01/18 10:11	02/06/18 16:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: B3H0K3 — **Lab Sample ID: 160-26495-7**
Date Collected: 01/23/18 10:09 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.8**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	71		51 - 104	02/01/18 10:11	02/06/18 16:32	1
Terphenyl-d14 (Surr)	87		59 - 98	02/01/18 10:11	02/06/18 16:32	1

Client Sample ID: B3H0K6 — **Lab Sample ID: 160-26495-8**
Date Collected: 01/23/18 10:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	02/01/18 10:11	02/06/18 16:59	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	290	N J	ug/Kg	☼	3.65	141-79-7	02/01/18 10:11	02/06/18 16:59	1
Unknown	13000	N	ug/Kg	☼	4.03		02/01/18 10:11	02/06/18 16:59	1
Unknown	260	N	ug/Kg	☼	4.55		02/01/18 10:11	02/06/18 16:59	1
Hexadecane	170	N J	ug/Kg	☼	8.65	544-76-3	02/01/18 10:11	02/06/18 16:59	1
Pentadecane, 2,6,10-trimethyl-	150	N J	ug/Kg	☼	8.86	3892-00-0	02/01/18 10:11	02/06/18 16:59	1
Heptadecane	280	N J	ug/Kg	☼	9.11	629-78-7	02/01/18 10:11	02/06/18 16:59	1
Octadecane	230	N J	ug/Kg	☼	9.55	593-45-3	02/01/18 10:11	02/06/18 16:59	1
Hexadecane, 2,6,10,14-tetramethyl-	220	N J	ug/Kg	☼	9.58	638-36-8	02/01/18 10:11	02/06/18 16:59	1
Nonadecane	190	N J	ug/Kg	☼	9.97	629-92-5	02/01/18 10:11	02/06/18 16:59	1
Unknown	220	N	ug/Kg	☼	13.48		02/01/18 10:11	02/06/18 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		47 - 125	02/01/18 10:11	02/06/18 16:59	1
2-Fluorobiphenyl (Surr)	85		59 - 110	02/01/18 10:11	02/06/18 16:59	1
2-Fluorophenol (Surr)	80		54 - 102	02/01/18 10:11	02/06/18 16:59	1
Nitrobenzene-d5 (Surr)	77		44 - 120	02/01/18 10:11	02/06/18 16:59	1
Phenol-d5 (Surr)	81		51 - 104	02/01/18 10:11	02/06/18 16:59	1
Terphenyl-d14 (Surr)	89		59 - 98	02/01/18 10:11	02/06/18 16:59	1

Client Sample ID: B3H0K9 — **Lab Sample ID: 160-26495-9**
Date Collected: 01/23/18 10:12 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	02/01/18 10:11	02/06/18 17:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	290	N J	ug/Kg	☼	3.65	141-79-7	02/01/18 10:11	02/06/18 17:27	1
Unknown	12000	N	ug/Kg	☼	4.02		02/01/18 10:11	02/06/18 17:27	1
Unknown	250	N	ug/Kg	☼	4.54		02/01/18 10:11	02/06/18 17:27	1
Unknown	160	N	ug/Kg	☼	13.49		02/01/18 10:11	02/06/18 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		47 - 125	02/01/18 10:11	02/06/18 17:27	1
2-Fluorobiphenyl (Surr)	80		59 - 110	02/01/18 10:11	02/06/18 17:27	1
2-Fluorophenol (Surr)	77		54 - 102	02/01/18 10:11	02/06/18 17:27	1
Nitrobenzene-d5 (Surr)	73		44 - 120	02/01/18 10:11	02/06/18 17:27	1
Phenol-d5 (Surr)	79		51 - 104	02/01/18 10:11	02/06/18 17:27	1
Terphenyl-d14 (Surr)	86		59 - 98	02/01/18 10:11	02/06/18 17:27	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B3H0F8 — **Lab Sample ID: 160-26495-1**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	26	2.6	mg/Kg	☼	01/30/18 13:57	02/01/18 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*88*		*49 - 133*	*01/30/18 13:57*	*02/01/18 12:18*	*1*

Client Sample ID: B3H0H1 — **Lab Sample ID: 160-26495-2**
Date Collected: 01/23/18 08:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/30/18 13:57	02/01/18 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*111*		*49 - 133*	*01/30/18 13:57*	*02/01/18 13:38*	*1*

Client Sample ID: B3H0H4 — **Lab Sample ID: 160-26495-3**
Date Collected: 01/23/18 08:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/30/18 13:57	02/01/18 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*49 - 133*	*01/30/18 13:57*	*02/01/18 14:05*	*1*

Client Sample ID: B3H0H6 — **Lab Sample ID: 160-26495-4**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/30/18 13:57	02/01/18 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*49 - 133*	*01/30/18 13:57*	*02/01/18 14:32*	*1*

Client Sample ID: B3H0H9 — **Lab Sample ID: 160-26495-5**
Date Collected: 01/23/18 08:19 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	01/30/18 13:57	02/01/18 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*49 - 133*	*01/30/18 13:57*	*02/01/18 14:59*	*1*

Client Sample ID: B3H0K0 — **Lab Sample ID: 160-26495-6**
Date Collected: 01/23/18 10:02 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.6	U	27	2.6	mg/Kg	☼	01/30/18 13:57	02/01/18 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*49 - 133*	*01/30/18 13:57*	*02/01/18 15:25*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B3H0K3 — **Lab Sample ID: 160-26495-7**
Date Collected: 01/23/18 10:09 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/30/18 13:57	02/01/18 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*77*		*49 - 133*	*01/30/18 13:57*	*02/01/18 16:46*	*1*

Client Sample ID: B3H0K6 — **Lab Sample ID: 160-26495-8**
Date Collected: 01/23/18 10:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/30/18 13:57	02/01/18 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*49 - 133*	*01/30/18 13:57*	*02/01/18 17:13*	*1*

Client Sample ID: B3H0K9 — **Lab Sample ID: 160-26495-9**
Date Collected: 01/23/18 10:12 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.5	U	26	2.5	mg/Kg	☼	01/30/18 13:57	02/01/18 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*49 - 133*	*01/30/18 13:57*	*02/01/18 17:39*	*1*

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H0F8 — **Lab Sample ID: 160-26495-1**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5900**	**D**	12.1	4.8	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	01/30/18 12:49	02/09/18 21:57	5
Arsenic	**4.5**	**D**	2.4	0.97	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Barium	**75.6**	**D**	4.8	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Cadmium	**0.074**	**B D**	0.12	0.058	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Chromium	**8.2**	**D**	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Copper	**12.8**	**D**	2.4	0.97	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Lead	**5.2**	**D**	0.72	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Manganese	**350**	**D N**	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Nickel	**10.0**	**D**	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Selenium	**1.2**	**D**	1.2	0.77	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5
Uranium	**0.50**	**D**	0.24	0.097	mg/Kg	☼	01/30/18 11:14	02/20/18 21:46	5

Client Sample ID: B3H0H1 — **Lab Sample ID: 160-26495-2**
Date Collected: 01/23/18 08:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6000**	**D**	12.2	4.9	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	01/30/18 12:49	02/09/18 22:01	5
Arsenic	**3.9**	**D**	2.4	0.98	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Barium	**81.4**	**D**	4.9	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5

Method: 6020A - Metals (ICP/MS) (Continued)

Client Sample ID: B3H0H1 — **Lab Sample ID: 160-26495-2**
Date Collected: 01/23/18 08:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.071	B D	0.12	0.059	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Chromium	7.8	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Copper	12.6	D	2.4	0.98	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Lead	4.7	D	0.73	0.31	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Manganese	380	D N	1.2	0.49	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Nickel	10.4	D	1.2	0.49	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Selenium	1.0	B D	1.2	0.78	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5
Uranium	0.39	D	0.24	0.098	mg/Kg	☼	01/30/18 11:14	02/20/18 21:53	5

Client Sample ID: B3H0H4 — **Lab Sample ID: 160-26495-3**
Date Collected: 01/23/18 08:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6080	D	11.2	4.5	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	01/30/18 12:49	02/09/18 22:06	5
Arsenic	4.4	D	2.2	0.90	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Barium	86.5	D	4.5	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Cadmium	0.081	B D	0.11	0.054	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Chromium	7.3	D	2.2	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Copper	13.2	D	2.2	0.90	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Lead	5.2	D	0.67	0.28	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Manganese	390	D N	1.1	0.45	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Nickel	10	D	1.1	0.45	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Selenium	1.1	D	1.1	0.72	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Silver	0.17	U D	0.45	0.17	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5
Uranium	0.41	D	0.22	0.090	mg/Kg	☼	01/30/18 11:14	02/20/18 21:59	5

Client Sample ID: B3H0H6 — **Lab Sample ID: 160-26495-4**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200	D	12.4	5.0	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 22:10	5
Arsenic	4.3	D	2.5	0.99	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Barium	90.9	D	5.0	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Cadmium	0.079	B D	0.12	0.059	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Chromium	8.5	D	2.5	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Copper	13.5	D	2.5	0.99	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Lead	5.5	D	0.74	0.31	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Manganese	479	D N	1.2	0.50	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Nickel	11.9	D	1.2	0.50	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Selenium	1.0	B D	1.2	0.79	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Silver	0.19	U D	0.50	0.19	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5
Uranium	0.58	D	0.25	0.099	mg/Kg	☼	01/30/18 11:14	02/20/18 22:06	5

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H0H9 — **Lab Sample ID: 160-26495-5**
Date Collected: 01/23/18 08:19 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6150	D	12.0	4.8	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 22:14	5
Arsenic	4.0	D	2.4	0.96	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Barium	84.7	D	4.8	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Cadmium	0.080	B D	0.12	0.058	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Chromium	8.3	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Copper	12.6	D	2.4	0.96	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Lead	5.8	D	0.72	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Manganese	399	D N	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Nickel	11.1	D	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Selenium	0.96	B D	1.2	0.77	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5
Uranium	0.43	D	0.24	0.096	mg/Kg	☼	01/30/18 11:14	02/20/18 22:13	5

Client Sample ID: B3H0K0 — **Lab Sample ID: 160-26495-6**
Date Collected: 01/23/18 10:02 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6360	D	11.9	4.8	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 22:19	5
Arsenic	3.8	D	2.4	0.95	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Barium	87.4	D	4.8	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Cadmium	0.087	B D	0.12	0.057	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Chromium	7.5	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Copper	13.1	D	2.4	0.95	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Lead	5.8	D	0.71	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Manganese	381	D N	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Nickel	10	D	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Selenium	1.2	D	1.2	0.76	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5
Uranium	0.40	D	0.24	0.095	mg/Kg	☼	01/30/18 11:14	02/20/18 22:19	5

Client Sample ID: B3H0K3 — **Lab Sample ID: 160-26495-7**
Date Collected: 01/23/18 10:09 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5680	D	12.7	5.1	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	01/30/18 12:49	02/09/18 22:23	5
Arsenic	4.6	D	2.5	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Barium	112	D	5.1	1.3	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Cadmium	0.091	B D	0.13	0.061	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Chromium	6.9	D	2.5	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Copper	15.4	D	2.5	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Lead	6.2	D	0.76	0.32	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Manganese	531	D N	1.3	0.51	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Nickel	9.4	D	1.3	0.51	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Selenium	1.4	D	1.3	0.82	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5
Uranium	0.40	D	0.25	0.10	mg/Kg	☼	01/30/18 11:14	02/20/18 22:26	5

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H0K6 — **Lab Sample ID: 160-26495-8**
Date Collected: 01/23/18 10:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6130	D	12.0	4.8	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	01/30/18 12:49	02/09/18 22:28	5
Arsenic	4.0	D	2.4	0.96	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Barium	83.6	D	4.8	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Cadmium	0.082	B D	0.12	0.057	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Chromium	7.7	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Copper	12.8	D	2.4	0.96	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Lead	5.7	D	0.72	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Manganese	376	D N	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Nickel	10.0	D	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Selenium	0.99	B D	1.2	0.77	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5
Uranium	0.79	D	0.24	0.096	mg/Kg	☼	01/30/18 11:14	02/20/18 22:33	5

Client Sample ID: B3H0K9 — **Lab Sample ID: 160-26495-9**
Date Collected: 01/23/18 10:12 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5860	D	11.9	4.8	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 22:32	5
Arsenic	4.9	D	2.4	0.95	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Barium	81.0	D	4.8	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Cadmium	0.081	B D	0.12	0.057	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Chromium	7.9	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Copper	15.1	D	2.4	0.95	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Lead	5.8	D	0.71	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Manganese	384	D N	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Nickel	9.7	D	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Selenium	1.2	D	1.2	0.76	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5
Uranium	0.47	D	0.24	0.095	mg/Kg	☼	01/30/18 11:14	02/20/18 23:00	5

Client Sample ID: B3H0M0 — **Lab Sample ID: 160-26513-1**
Date Collected: 01/24/18 08:11 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5760	D	12.6	5.1	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Antimony	0.49	B D	1.2	0.47	mg/Kg	☼	01/30/18 12:49	02/09/18 22:50	5
Arsenic	3.2	D	2.5	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Barium	86.5	D	5.1	1.3	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Cadmium	0.091	B D	0.13	0.061	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Chromium	10.5	D	2.5	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Copper	15.3	D	2.5	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Lead	4.7	D	0.76	0.32	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Manganese	346	D N	1.3	0.51	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Nickel	9.9	D	1.3	0.51	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Selenium	1.2	B D	1.3	0.81	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5
Uranium	1.4	D	0.25	0.10	mg/Kg	☼	01/30/18 11:14	02/20/18 23:06	5

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H0M3 — **Lab Sample ID: 160-26513-2**
Date Collected: 01/24/18 08:18 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6070	D	12.0	4.8	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Antimony	0.48	U D	1.2	0.48	mg/Kg	☼	01/30/18 12:49	02/09/18 22:55	5
Arsenic	2.8	D	2.4	0.96	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Barium	90.6	D	4.8	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Cadmium	0.068	B D	0.12	0.058	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Chromium	7.9	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Copper	12.5	D	2.4	0.96	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Lead	4.2	D	0.72	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Manganese	369	D N	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Nickel	10.8	D	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Selenium	0.86	B D	1.2	0.77	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5
Uranium	0.37	D	0.24	0.096	mg/Kg	☼	01/30/18 11:14	02/20/18 23:13	5

Client Sample ID: B3H0M6 — **Lab Sample ID: 160-26513-3**
Date Collected: 01/24/18 08:25 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 92.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6200	D	12.2	4.9	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Antimony	0.50	U D	1.3	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 22:59	5
Arsenic	4.2	D	2.4	0.98	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Barium	107	D	4.9	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Cadmium	0.084	B D	0.12	0.059	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Chromium	9.1	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Copper	13.2	D	2.4	0.98	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Lead	4.4	D	0.73	0.31	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Manganese	439	D N	1.2	0.49	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Nickel	11.5	D	1.2	0.49	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Selenium	0.96	B D	1.2	0.78	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5
Uranium	0.44	D	0.24	0.098	mg/Kg	☼	01/30/18 11:14	02/20/18 23:20	5

Client Sample ID: B3H0M9 — **Lab Sample ID: 160-26513-4**
Date Collected: 01/24/18 08:27 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 83.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6420	D	12.9	5.2	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Antimony	0.53	U D	1.3	0.53	mg/Kg	☼	01/30/18 12:49	02/09/18 23:04	5
Arsenic	5.9	D	2.6	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Barium	82.5	D	5.2	1.3	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Cadmium	0.098	B D	0.13	0.062	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Chromium	13.0	D	2.6	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Copper	17.1	D	2.6	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Lead	4.3	D	0.77	0.32	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Manganese	358	D N	1.3	0.52	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Nickel	15.0	D	1.3	0.52	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Selenium	0.83	U D	1.3	0.83	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Silver	0.19	U D	0.52	0.19	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5
Uranium	0.45	D	0.26	0.10	mg/Kg	☼	01/30/18 11:14	02/20/18 23:26	5

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H180 — **Lab Sample ID: 160-26513-5**
Date Collected: 01/24/18 09:42 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6020	D	12.3	4.9	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 23:08	5
Arsenic	5.6	D	2.5	0.98	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Barium	79.6	D	4.9	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Cadmium	0.085	B D	0.12	0.059	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Chromium	9.3	D	2.5	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Copper	13.8	D	2.5	0.98	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Lead	8.0	D	0.74	0.31	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Manganese	399	D N	1.2	0.49	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Nickel	13.3	D	1.2	0.49	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Selenium	0.93	B D	1.2	0.78	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5
Uranium	0.41	D	0.25	0.098	mg/Kg	☼	01/30/18 11:14	02/20/18 23:33	5

Client Sample ID: B3H183 — **Lab Sample ID: 160-26513-6**
Date Collected: 01/24/18 09:50 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 95.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6110	D	12.1	4.8	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Antimony	0.50	B D	1.2	0.50	mg/Kg	☼	01/30/18 12:50	02/12/18 17:43	5
Arsenic	2.9	D	2.4	0.97	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Barium	84.3	D	4.8	1.2	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Cadmium	0.080	B D	0.12	0.058	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Chromium	8.8	D	2.4	1.1	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Copper	12.7	D	2.4	0.97	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Lead	4.1	D	0.72	0.30	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Manganese	388	D	1.2	0.48	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Nickel	11.8	D	1.2	0.48	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Selenium	1.3	D	1.2	0.77	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5
Uranium	0.48	D	0.24	0.097	mg/Kg	☼	01/30/18 12:45	02/21/18 02:47	5

Client Sample ID: B3H185 — **Lab Sample ID: 160-26513-7**
Date Collected: 01/24/18 09:50 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 90.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6620	D	12.7	5.1	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Antimony	0.64	B D	1.3	0.53	mg/Kg	☼	01/30/18 12:50	02/12/18 18:15	5
Arsenic	3.2	D	2.5	1.0	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Barium	88.3	D	5.1	1.3	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Cadmium	0.12	B D	0.13	0.061	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Chromium	8.0	D	2.5	1.1	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Copper	12.9	D	2.5	1.0	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Lead	4.3	D	0.76	0.32	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Manganese	380	D	1.3	0.51	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Nickel	10.2	D	1.3	0.51	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Selenium	1.0	B D	1.3	0.81	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5
Uranium	0.42	D	0.25	0.10	mg/Kg	☼	01/30/18 12:45	02/21/18 03:14	5

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3H188 — **Lab Sample ID: 160-26513-8**
Date Collected: 01/24/18 09:55 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 89.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6610	D	13.4	5.4	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Antimony	0.52	B D	1.2	0.48	mg/Kg	☼	01/30/18 12:50	02/12/18 18:19	5
Arsenic	4.0	D	2.7	1.1	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Barium	83.7	D	5.4	1.3	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Cadmium	0.090	B D	0.13	0.065	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Chromium	9.2	D	2.7	1.2	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Copper	14.2	D	2.7	1.1	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Lead	4.4	D	0.81	0.34	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Manganese	385	D	1.3	0.54	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Nickel	11.0	D	1.3	0.54	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Selenium	0.98	B D	1.3	0.86	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Silver	0.20	U D	0.54	0.20	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5
Uranium	0.42	D	0.27	0.11	mg/Kg	☼	01/30/18 12:45	02/21/18 03:21	5

Client Sample ID: B3H191 — **Lab Sample ID: 160-26513-9**
Date Collected: 01/24/18 09:57 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 83.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6690	D	13.2	5.3	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Antimony	0.52	U D	1.3	0.52	mg/Kg	☼	01/30/18 12:50	02/12/18 18:23	5
Arsenic	4.4	D	2.6	1.1	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Barium	83.4	D	5.3	1.3	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Cadmium	0.11	B D	0.13	0.063	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Chromium	12.7	D	2.6	1.2	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Copper	16.6	D	2.6	1.1	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Lead	5.0	D	0.79	0.33	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Manganese	384	D	1.3	0.53	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Nickel	24.8	D	1.3	0.53	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Selenium	1.2	B D	1.3	0.84	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Silver	0.20	U D	0.53	0.20	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5
Uranium	0.56	D	0.26	0.11	mg/Kg	☼	01/30/18 12:45	02/21/18 03:27	5

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3H0F8 — **Lab Sample ID: 160-26495-1**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:20	1

Client Sample ID: B3H0H1 — **Lab Sample ID: 160-26495-2**
Date Collected: 01/23/18 08:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:29	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3H0H4 — **Lab Sample ID: 160-26495-3**
Date Collected: 01/23/18 08:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:31	1

Client Sample ID: B3H0H6 — **Lab Sample ID: 160-26495-4**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:33	1

Client Sample ID: B3H0H9 — **Lab Sample ID: 160-26495-5**
Date Collected: 01/23/18 08:19 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:40	1

Client Sample ID: B3H0K0 — **Lab Sample ID: 160-26495-6**
Date Collected: 01/23/18 10:02 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:42	1

Client Sample ID: B3H0K3 — **Lab Sample ID: 160-26495-7**
Date Collected: 01/23/18 10:09 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	B	0.033	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:43	1

Client Sample ID: B3H0K6 — **Lab Sample ID: 160-26495-8**
Date Collected: 01/23/18 10:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	B	0.035	0.012	mg/Kg	☼	02/02/18 11:28	02/06/18 13:45	1

Client Sample ID: B3H0K9 — **Lab Sample ID: 160-26495-9**
Date Collected: 01/23/18 10:12 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.035	0.012	mg/Kg	☼	02/02/18 11:28	02/06/18 13:47	1

Client Sample ID: B3H0M0 — **Lab Sample ID: 160-26513-1**
Date Collected: 01/24/18 08:11 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:49	1

Client Sample ID: B3H0M3 — **Lab Sample ID: 160-26513-2**
Date Collected: 01/24/18 08:18 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:51	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3H0M6 — **Lab Sample ID: 160-26513-3**
Date Collected: 01/24/18 08:25 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 92.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.035	0.012	mg/Kg	☼	02/02/18 11:28	02/06/18 13:53	1

Client Sample ID: B3H0M9 — **Lab Sample ID: 160-26513-4**
Date Collected: 01/24/18 08:27 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 83.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	B	0.039	0.013	mg/Kg	☼	02/02/18 11:28	02/06/18 13:55	1

Client Sample ID: B3H180 — **Lab Sample ID: 160-26513-5**
Date Collected: 01/24/18 09:42 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.015	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 13:57	1

Client Sample ID: B3H183 — **Lab Sample ID: 160-26513-6**
Date Collected: 01/24/18 09:50 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 95.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	B	0.033	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 14:03	1

Client Sample ID: B3H185 — **Lab Sample ID: 160-26513-7**
Date Collected: 01/24/18 09:50 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 90.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.034	0.011	mg/Kg	☼	02/02/18 11:28	02/06/18 14:05	1

Client Sample ID: B3H188 — **Lab Sample ID: 160-26513-8**
Date Collected: 01/24/18 09:55 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 89.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	B	0.037	0.012	mg/Kg	☼	02/02/18 11:28	02/06/18 14:07	1

Client Sample ID: B3H191 — **Lab Sample ID: 160-26513-9**
Date Collected: 01/24/18 09:57 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 83.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	B	0.037	0.012	mg/Kg	☼	02/02/18 11:28	02/06/18 14:09	1

General Chemistry

Client Sample ID: B3H0F8 — **Lab Sample ID: 160-26495-1**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.53		0.53	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 17:38	1

Client Sample ID: B3H0H1 — **Lab Sample ID: 160-26495-2**
Date Collected: 01/23/18 08:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.40	B	0.52	0.23	mg/Kg	☼	02/20/18 11:10	02/20/18 17:45	1

General Chemistry

Client Sample ID: B3H0H4 — **Lab Sample ID: 160-26495-3**
Date Collected: 01/23/18 08:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.42	B	0.52	0.23	mg/Kg	☼	02/20/18 11:10	02/20/18 17:47	1

Client Sample ID: B3H0H6 — **Lab Sample ID: 160-26495-4**
Date Collected: 01/23/18 08:01 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.28	B	0.53	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 17:50	1

Client Sample ID: B3H0H9 — **Lab Sample ID: 160-26495-5**
Date Collected: 01/23/18 08:19 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.53	B	0.54	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 17:52	1

Client Sample ID: B3H0K0 — **Lab Sample ID: 160-26495-6**
Date Collected: 01/23/18 10:02 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.41	B	0.53	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 17:54	1

Client Sample ID: B3H0K3 — **Lab Sample ID: 160-26495-7**
Date Collected: 01/23/18 10:09 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.43	B	0.53	0.23	mg/Kg	☼	02/20/18 11:10	02/20/18 18:01	1

Client Sample ID: B3H0K6 — **Lab Sample ID: 160-26495-8**
Date Collected: 01/23/18 10:10 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.45	B	0.52	0.23	mg/Kg	☼	02/20/18 11:10	02/20/18 18:04	1

Client Sample ID: B3H0K9 — **Lab Sample ID: 160-26495-9**
Date Collected: 01/23/18 10:12 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.51	B	0.53	0.23	mg/Kg	☼	02/20/18 11:10	02/20/18 18:06	1

Client Sample ID: B3H0M0 — **Lab Sample ID: 160-26513-1**
Date Collected: 01/24/18 08:11 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 93.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.54		0.53	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 18:09	1

Client Sample ID: B3H0M3 — **Lab Sample ID: 160-26513-2**
Date Collected: 01/24/18 08:18 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.46	B	0.53	0.23	mg/Kg	☼	02/20/18 11:10	02/20/18 18:13	1

General Chemistry

Client Sample ID: B3H0M6 — **Lab Sample ID: 160-26513-3**
Date Collected: 01/24/18 08:25 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 92.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.43**	**B**	0.54	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 18:16	1

Client Sample ID: B3H0M9 — **Lab Sample ID: 160-26513-4**
Date Collected: 01/24/18 08:27 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 83.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.37**	**B**	0.60	0.27	mg/Kg	☼	02/20/18 11:10	02/20/18 18:18	1

Client Sample ID: B3H180 — **Lab Sample ID: 160-26513-5**
Date Collected: 01/24/18 09:42 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 92.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.72**		0.54	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 18:21	1
Cyanide, Total	0.12	U Z	0.54	0.12	mg/Kg	☼	02/07/18 14:30	02/08/18 14:57	1

Client Sample ID: B3H183 — **Lab Sample ID: 160-26513-6**
Date Collected: 01/24/18 09:50 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 95.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.61**		0.53	0.23	mg/Kg	☼	02/20/18 11:10	02/20/18 18:23	1
Cyanide, Total	0.12	U Z	0.53	0.12	mg/Kg	☼	02/07/18 14:30	02/08/18 15:07	1

Client Sample ID: B3H185 — **Lab Sample ID: 160-26513-7**
Date Collected: 01/24/18 09:50 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 90.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.41**	**B**	0.55	0.24	mg/Kg	☼	02/20/18 11:10	02/20/18 18:30	1
Cyanide, Total	0.12	U Z	0.55	0.12	mg/Kg	☼	02/07/18 14:30	02/08/18 15:10	1

Client Sample ID: B3H188 — **Lab Sample ID: 160-26513-8**
Date Collected: 01/24/18 09:55 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 89.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.69**		0.56	0.25	mg/Kg	☼	02/20/18 11:10	02/20/18 18:32	1
Cyanide, Total	0.13	U Z	0.56	0.13	mg/Kg	☼	02/07/18 14:30	02/08/18 15:14	1

Client Sample ID: B3H191 — **Lab Sample ID: 160-26513-9**
Date Collected: 01/24/18 09:57 — **Matrix: Soil**
Date Received: 01/25/18 09:10 — **Percent Solids: 83.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.94**		0.59	0.26	mg/Kg	☼	02/20/18 11:10	02/20/18 18:35	1
Cyanide, Total	0.13	U Z	0.60	0.13	mg/Kg	☼	02/07/18 14:30	02/08/18 15:17	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 160-349157/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349885 — **Prep Batch: 349157**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	46	U	330	46	ug/Kg		02/01/18 10:11	02/06/18 11:59	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*258*	*N J*	*ug/Kg*		*3.65*	*141-79-7*	*02/01/18 10:11*	*02/06/18 11:59*	*1*
Unknown	*11600*	*N*	*ug/Kg*		*4.02*		*02/01/18 10:11*	*02/06/18 11:59*	*1*
Unknown	*241*	*N*	*ug/Kg*		*4.54*		*02/01/18 10:11*	*02/06/18 11:59*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*47 - 125*	*02/01/18 10:11*	*02/06/18 11:59*	*1*
2-Fluorobiphenyl (Surr)	*84*		*59 - 110*	*02/01/18 10:11*	*02/06/18 11:59*	*1*
2-Fluorophenol (Surr)	*82*		*54 - 102*	*02/01/18 10:11*	*02/06/18 11:59*	*1*
Nitrobenzene-d5 (Surr)	*79*		*44 - 120*	*02/01/18 10:11*	*02/06/18 11:59*	*1*
Phenol-d5 (Surr)	*82*		*51 - 104*	*02/01/18 10:11*	*02/06/18 11:59*	*1*
Terphenyl-d14 (Surr)	*93*		*59 - 98*	*02/01/18 10:11*	*02/06/18 11:59*	*1*

Lab Sample ID: LCS 160-349157/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349885 — **Prep Batch: 349157**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	1670	1500		ug/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*47 - 125*
2-Fluorobiphenyl (Surr)	*84*		*59 - 110*
2-Fluorophenol (Surr)	*83*		*54 - 102*
Nitrobenzene-d5 (Surr)	*79*		*44 - 120*
Phenol-d5 (Surr)	*84*		*51 - 104*
Terphenyl-d14 (Surr)	*93*		*59 - 98*

Lab Sample ID: 160-26495-2 MS — **Client Sample ID: B3H0H1**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349885 — **Prep Batch: 349157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	48	U	1740	1490		ug/Kg	☼	86	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*47 - 125*
2-Fluorobiphenyl (Surr)	*81*		*59 - 110*
2-Fluorophenol (Surr)	*77*		*54 - 102*
Nitrobenzene-d5 (Surr)	*75*		*44 - 120*
Phenol-d5 (Surr)	*79*		*51 - 104*
Terphenyl-d14 (Surr)	*87*		*59 - 98*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 160-26495-2 MSD — **Client Sample ID: B3H0H1**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349885 — **Prep Batch: 349157**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tributyl phosphate	48	U	1720	1540		ug/Kg	☼	90	50 - 150	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*47 - 125*
2-Fluorobiphenyl (Surr)	*83*		*59 - 110*
2-Fluorophenol (Surr)	*81*		*54 - 102*
Nitrobenzene-d5 (Surr)	*78*		*44 - 120*
Phenol-d5 (Surr)	*83*		*51 - 104*
Terphenyl-d14 (Surr)	*89*		*59 - 98*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 160-348816/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349041 — **Prep Batch: 348816**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	2.4	U	25	2.4	mg/Kg		01/30/18 13:57	02/01/18 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*112*		*49 - 133*	*01/30/18 13:57*	*02/01/18 11:24*	*1*

Lab Sample ID: LCS 160-348816/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349041 — **Prep Batch: 348816**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	77.3		mg/Kg		93	57 - 105

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*117*		*49 - 133*

Lab Sample ID: 160-26495-1 MS — **Client Sample ID: B3H0F8**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349041 — **Prep Batch: 348816**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2.6	U	87.6	68.9		mg/Kg	☼	79	34 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*106*		*49 - 133*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 160-26495-1 MSD — **Client Sample ID: B3H0F8**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349041 — **Prep Batch: 348816**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.6	U	87.6	77.6		mg/Kg	☼	89	34 - 150	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*121*		*49 - 133*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-348794/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352192 — **Prep Batch: 348794**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.8	U D	4.5	1.8	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Arsenic	0.36	U D	0.89	0.36	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Barium	0.45	U D	1.8	0.45	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Cadmium	0.021	U D	0.045	0.021	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Chromium	0.40	U D	0.89	0.40	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Copper	0.36	U D	0.89	0.36	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Lead	0.11	U D	0.27	0.11	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Manganese	0.18	U D	0.45	0.18	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Nickel	0.406	B D	0.45	0.18	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Selenium	0.29	U D	0.45	0.29	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Silver	0.067	U D	0.18	0.067	mg/Kg		01/30/18 11:14	02/20/18 20:06	2
Uranium	0.036	U D	0.089	0.036	mg/Kg		01/30/18 11:14	02/20/18 20:06	2

Lab Sample ID: LCS 160-348794/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352192 — **Prep Batch: 348794**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	89.9	85.10	D	mg/Kg		95	80 - 120

Lab Sample ID: LCSSRM 160-348794/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352192 — **Prep Batch: 348794**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	5933	D	mg/Kg		73.3	39.6 - 160.7
Arsenic	100	90.14	D	mg/Kg		90.1	69.6 - 131.0
Barium	217	188.5	D	mg/Kg		86.9	73.7 - 128.1
Cadmium	83.7	72.68	D	mg/Kg		86.8	73.2 - 131.4
Chromium	107	92.34	D	mg/Kg		86.3	69.4 - 134.6
Copper	166	152.8	D	mg/Kg		92.0	75.3 - 128.3

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 160-348794/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352192 — **Prep Batch: 348794**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	88.4	76.91	D	mg/Kg		87.0	69.9 - 130.1
Manganese	311	286.9	D	mg/Kg		92.3	74.9 - 125.4
Nickel	49.8	46.98	D	mg/Kg		94.3	69.1 - 135.1
Selenium	87.7	81.31	D	mg/Kg		92.7	64.1 - 135.7
Silver	41.4	37.22	D	mg/Kg		89.9	65.9 - 133.8

Lab Sample ID: 160-26494-A-14-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352192 — **Prep Batch: 348794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5800	D	1030	8321	D X	mg/Kg	☼	246	75 - 125
Arsenic	4.6	D	103	100.5	D	mg/Kg	☼	94	75 - 125
Barium	70.4	D	103	185.3	D	mg/Kg	☼	112	75 - 125
Cadmium	0.090	B D	103	96.77	D	mg/Kg	☼	94	75 - 125
Chromium	9.7	D	103	102.8	D	mg/Kg	☼	91	75 - 125
Copper	13.3	D	103	115.9	D	mg/Kg	☼	100	75 - 125
Lead	4.5	D	103	101.8	D	mg/Kg	☼	95	75 - 125
Manganese	349	D N	103	475.4	D	mg/Kg	☼	123	75 - 125
Nickel	9.9	D	103	110.0	D	mg/Kg	☼	98	75 - 125
Selenium	1.0	B D	51.3	46.72	D	mg/Kg	☼	89	75 - 125
Silver	0.17	U D	20.5	20.09	D	mg/Kg	☼	98	75 - 125
Uranium	0.51	D	103	98.90	D	mg/Kg	☼	96	75 - 125

Lab Sample ID: 160-26494-A-14-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352192 — **Prep Batch: 348794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	5800	D	1030	9286	D X	mg/Kg	☼	337	75 - 125	11	30
Arsenic	4.6	D	103	100.5	D	mg/Kg	☼	93	75 - 125	0	30
Barium	70.4	D	103	190.5	D	mg/Kg	☼	116	75 - 125	3	30
Cadmium	0.090	B D	103	96.23	D	mg/Kg	☼	93	75 - 125	1	30
Chromium	9.7	D	103	104.6	D	mg/Kg	☼	92	75 - 125	2	30
Copper	13.3	D	103	113.8	D	mg/Kg	☼	97	75 - 125	2	30
Lead	4.5	D	103	102.4	D	mg/Kg	☼	95	75 - 125	1	30
Manganese	349	D N	103	514.3	D N	mg/Kg	☼	160	75 - 125	8	30
Nickel	9.9	D	103	109.7	D	mg/Kg	☼	97	75 - 125	0	30
Selenium	1.0	B D	51.6	47.33	D	mg/Kg	☼	90	75 - 125	1	30
Silver	0.17	U D	20.7	19.93	D	mg/Kg	☼	96	75 - 125	1	30
Uranium	0.51	D	103	98.55	D	mg/Kg	☼	95	75 - 125	0	30

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 160-348803/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352193 — **Prep Batch: 348803**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.9	U D	4.7	1.9	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Arsenic	0.38	U D	0.94	0.38	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Barium	0.47	U D	1.9	0.47	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Cadmium	0.023	U D	0.047	0.023	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Chromium	0.42	U D	0.94	0.42	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Copper	0.38	U D	0.94	0.38	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Lead	0.12	U D	0.28	0.12	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Manganese	0.19	U D	0.47	0.19	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Nickel	0.19	U D	0.47	0.19	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Selenium	0.30	U D	0.47	0.30	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Silver	0.070	U D	0.19	0.070	mg/Kg		01/30/18 12:45	02/21/18 02:07	2
Uranium	0.038	U D	0.094	0.038	mg/Kg		01/30/18 12:45	02/21/18 02:07	2

Lab Sample ID: LCS 160-348803/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352193 — **Prep Batch: 348803**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	95.9	97.94	D	mg/Kg		102	80 - 120

Lab Sample ID: LCSSRM 160-348803/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352193 — **Prep Batch: 348803**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	6789	D	mg/Kg		83.9	39.6 - 160.7
Arsenic	100	102.1	D	mg/Kg		102.1	69.6 - 131.0
Barium	217	219.7	D	mg/Kg		101.3	73.7 - 128.1
Cadmium	83.7	82.79	D	mg/Kg		98.9	73.2 - 131.4
Chromium	107	104.9	D	mg/Kg		98.1	69.4 - 134.6
Copper	166	176.1	D	mg/Kg		106.1	75.3 - 128.3
Lead	88.4	87.53	D	mg/Kg		99.0	69.9 - 130.1
Manganese	311	325.1	D	mg/Kg		104.5	74.9 - 125.4
Nickel	49.8	53.76	D	mg/Kg		107.9	69.1 - 135.1
Selenium	87.7	89.94	D	mg/Kg		102.6	64.1 - 135.7
Silver	41.4	42.18	D	mg/Kg		101.9	65.9 - 133.8

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-26513-6 MS — **Client Sample ID: B3H183**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 352193 — **Prep Batch: 348803**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6110	D	909	9379	D X	mg/Kg	☼	359	75 - 125
Arsenic	2.9	D	90.9	86.79	D	mg/Kg	☼	92	75 - 125
Barium	84.3	D	90.9	177.5	D	mg/Kg	☼	103	75 - 125
Cadmium	0.080	B D	91.0	85.80	D	mg/Kg	☼	94	75 - 125
Chromium	8.8	D	90.9	93.75	D	mg/Kg	☼	93	75 - 125
Copper	12.7	D	90.9	101.8	D	mg/Kg	☼	98	75 - 125
Lead	4.1	D	90.9	91.04	D	mg/Kg	☼	96	75 - 125
Manganese	388	D	90.9	481.7	D X	mg/Kg	☼	103	75 - 125
Nickel	11.8	D	90.9	98.02	D	mg/Kg	☼	95	75 - 125
Selenium	1.3	D	45.5	41.58	D	mg/Kg	☼	88	75 - 125
Silver	0.18	U D	18.2	17.70	D	mg/Kg	☼	97	75 - 125
Uranium	0.48	D	90.9	89.49	D	mg/Kg	☼	98	75 - 125

Lab Sample ID: 160-26513-6 MSD — **Client Sample ID: B3H183**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 352193 — **Prep Batch: 348803**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6110	D	961	9337	D X	mg/Kg	☼	336	75 - 125	0	30
Arsenic	2.9	D	96.1	90.59	D	mg/Kg	☼	91	75 - 125	4	30
Barium	84.3	D	96.1	191.4	D	mg/Kg	☼	112	75 - 125	8	30
Cadmium	0.080	B D	96.1	90.54	D	mg/Kg	☼	94	75 - 125	5	30
Chromium	8.8	D	96.1	96.12	D	mg/Kg	☼	91	75 - 125	3	30
Copper	12.7	D	96.1	104.7	D	mg/Kg	☼	96	75 - 125	3	30
Lead	4.1	D	96.1	95.41	D	mg/Kg	☼	95	75 - 125	5	30
Manganese	388	D	96.1	482.7	D X	mg/Kg	☼	99	75 - 125	0	30
Nickel	11.8	D	96.1	101.7	D	mg/Kg	☼	93	75 - 125	4	30
Selenium	1.3	D	48.0	43.91	D	mg/Kg	☼	89	75 - 125	5	30
Silver	0.18	U D	19.2	18.40	D	mg/Kg	☼	96	75 - 125	4	30
Uranium	0.48	D	96.1	93.94	D	mg/Kg	☼	97	75 - 125	5	30

Lab Sample ID: MB 160-348806/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350531 — **Prep Batch: 348806**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.17	U D	0.43	0.17	mg/Kg		01/30/18 12:49	02/09/18 20:55	2

Lab Sample ID: LCS 160-348806/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350531 — **Prep Batch: 348806**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	47.7	45.45	D	mg/Kg		95	21 - 251

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 160-26494-A-14-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350531 — **Prep Batch: 348806**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.50	U D	50.2	49.37	D	mg/Kg	☼	98	75 - 125

Lab Sample ID: 160-26494-A-14-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350531 — **Prep Batch: 348806**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.50	U D	47.6	47.00	D	mg/Kg	☼	99	75 - 125	5	30

Lab Sample ID: MB 160-348807/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350656 — **Prep Batch: 348807**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.19	U D	0.47	0.19	mg/Kg		01/30/18 12:50	02/12/18 17:34	2

Lab Sample ID: LCS 160-348807/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350656 — **Prep Batch: 348807**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	45.4	44.58	D	mg/Kg		98	21 - 251

Lab Sample ID: 160-26513-6 MS — **Client Sample ID: B3H183**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 350656 — **Prep Batch: 348807**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.50	B D	50.5	50.51	D	mg/Kg	☼	99	75 - 125

Lab Sample ID: 160-26513-6 MSD — **Client Sample ID: B3H183**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 350656 — **Prep Batch: 348807**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.50	B D	51.1	52.79	D	mg/Kg	☼	102	75 - 125	4	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-349346/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349934 — **Prep Batch: 349346**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg		02/02/18 11:28	02/06/18 13:16	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 160-349346/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349934 — **Prep Batch: 349346**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.3	10.28	D	mg/Kg		83.6	51.4 - 148.8

Lab Sample ID: 160-26495-1 MS — **Client Sample ID: B3H0F8**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349934 — **Prep Batch: 349346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.011	U	0.866	0.920		mg/Kg	☼	106	80 - 120

Lab Sample ID: 160-26495-1 MSD — **Client Sample ID: B3H0F8**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349934 — **Prep Batch: 349346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.011	U	0.880	0.941		mg/Kg	☼	107	80 - 120	2	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-351913/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352311 — **Prep Batch: 351913**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.22	U	0.50	0.22	mg/Kg		02/20/18 11:10	02/20/18 17:33	1

Lab Sample ID: LCS 160-351913/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352311 — **Prep Batch: 351913**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	4.97		mg/Kg		99	90 - 110

Lab Sample ID: 160-26495-1 MS — **Client Sample ID: B3H0F8**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 352311 — **Prep Batch: 351913**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.53		5.29	5.73		mg/Kg	☼	98	90 - 110

Lab Sample ID: 160-26513-1 MS — **Client Sample ID: B3H0M0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 352311 — **Prep Batch: 351913**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.54		5.36	5.91		mg/Kg	☼	100	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 160-26495-1 DU — **Client Sample ID: B3H0F8**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 352311 — **Prep Batch: 351913**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia (as N)	0.53			0.497	B	mg/Kg	☼			7	30

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-350078/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350313 — **Prep Batch: 350078**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11	U	0.50	0.11	mg/Kg		02/07/18 14:30	02/08/18 14:46	1

Lab Sample ID: HLCS 160-350078/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350313 — **Prep Batch: 350078**

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			4.80	4.67		mg/Kg		97	85 - 115		

Lab Sample ID: LCS 160-350078/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350313 — **Prep Batch: 350078**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			2.40	2.18		mg/Kg		91	85 - 115		

Lab Sample ID: 160-26513-5 MS — **Client Sample ID: B3H180**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 350313 — **Prep Batch: 350078**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.12	U Z	2.59	2.45		mg/Kg	☼	95	60 - 130		

Lab Sample ID: 160-26513-5 DU — **Client Sample ID: B3H180**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 350313 — **Prep Batch: 350078**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Cyanide, Total	0.12	U Z		0.12	U	mg/Kg	☼			NC	30

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

GC/MS Semi VOA

Prep Batch: 349157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	3550C	
160-26495-2	B3H0H1	Total/NA	Soil	3550C	
160-26495-3	B3H0H4	Total/NA	Soil	3550C	
160-26495-4	B3H0H6	Total/NA	Soil	3550C	
160-26495-5	B3H0H9	Total/NA	Soil	3550C	
160-26495-6	B3H0K0	Total/NA	Soil	3550C	
160-26495-7	B3H0K3	Total/NA	Soil	3550C	
160-26495-8	B3H0K6	Total/NA	Soil	3550C	
160-26495-9	B3H0K9	Total/NA	Soil	3550C	
MB 160-349157/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-349157/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-26495-2 MS	B3H0H1	Total/NA	Soil	3550C	
160-26495-2 MSD	B3H0H1	Total/NA	Soil	3550C	

Analysis Batch: 349885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	8270D	349157
160-26495-2	B3H0H1	Total/NA	Soil	8270D	349157
160-26495-3	B3H0H4	Total/NA	Soil	8270D	349157
160-26495-4	B3H0H6	Total/NA	Soil	8270D	349157
160-26495-5	B3H0H9	Total/NA	Soil	8270D	349157
160-26495-6	B3H0K0	Total/NA	Soil	8270D	349157
160-26495-7	B3H0K3	Total/NA	Soil	8270D	349157
160-26495-8	B3H0K6	Total/NA	Soil	8270D	349157
160-26495-9	B3H0K9	Total/NA	Soil	8270D	349157
MB 160-349157/1-A	Method Blank	Total/NA	Solid	8270D	349157
LCS 160-349157/2-A	Lab Control Sample	Total/NA	Solid	8270D	349157
160-26495-2 MS	B3H0H1	Total/NA	Soil	8270D	349157
160-26495-2 MSD	B3H0H1	Total/NA	Soil	8270D	349157

GC Semi VOA

Prep Batch: 348816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	3550C	
160-26495-2	B3H0H1	Total/NA	Soil	3550C	
160-26495-3	B3H0H4	Total/NA	Soil	3550C	
160-26495-4	B3H0H6	Total/NA	Soil	3550C	
160-26495-5	B3H0H9	Total/NA	Soil	3550C	
160-26495-6	B3H0K0	Total/NA	Soil	3550C	
160-26495-7	B3H0K3	Total/NA	Soil	3550C	
160-26495-8	B3H0K6	Total/NA	Soil	3550C	
160-26495-9	B3H0K9	Total/NA	Soil	3550C	
MB 160-348816/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-348816/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-26495-1 MS	B3H0F8	Total/NA	Soil	3550C	
160-26495-1 MSD	B3H0F8	Total/NA	Soil	3550C	

GC Semi VOA (Continued)

Analysis Batch: 349041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	8015B	348816
160-26495-2	B3H0H1	Total/NA	Soil	8015B	348816
160-26495-3	B3H0H4	Total/NA	Soil	8015B	348816
160-26495-4	B3H0H6	Total/NA	Soil	8015B	348816
160-26495-5	B3H0H9	Total/NA	Soil	8015B	348816
160-26495-6	B3H0K0	Total/NA	Soil	8015B	348816
160-26495-7	B3H0K3	Total/NA	Soil	8015B	348816
160-26495-8	B3H0K6	Total/NA	Soil	8015B	348816
160-26495-9	B3H0K9	Total/NA	Soil	8015B	348816
MB 160-348816/1-A	Method Blank	Total/NA	Solid	8015B	348816
LCS 160-348816/2-A	Lab Control Sample	Total/NA	Solid	8015B	348816
160-26495-1 MS	B3H0F8	Total/NA	Soil	8015B	348816
160-26495-1 MSD	B3H0F8	Total/NA	Soil	8015B	348816

Metals

Prep Batch: 348794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	3050B	
160-26495-2	B3H0H1	Total/NA	Soil	3050B	
160-26495-3	B3H0H4	Total/NA	Soil	3050B	
160-26495-4	B3H0H6	Total/NA	Soil	3050B	
160-26495-5	B3H0H9	Total/NA	Soil	3050B	
160-26495-6	B3H0K0	Total/NA	Soil	3050B	
160-26495-7	B3H0K3	Total/NA	Soil	3050B	
160-26495-8	B3H0K6	Total/NA	Soil	3050B	
160-26495-9	B3H0K9	Total/NA	Soil	3050B	
160-26513-1	B3H0M0	Total/NA	Soil	3050B	
160-26513-2	B3H0M3	Total/NA	Soil	3050B	
160-26513-3	B3H0M6	Total/NA	Soil	3050B	
160-26513-4	B3H0M9	Total/NA	Soil	3050B	
160-26513-5	B3H180	Total/NA	Soil	3050B	
MB 160-348794/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-348794/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-348794/3-A	Lab Control Sample	Total/NA	Solid	3050B	
160-26494-A-14-B MS	Matrix Spike	Total/NA	Solid	3050B	
160-26494-A-14-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 348803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26513-6	B3H183	Total/NA	Soil	3050B	
160-26513-7	B3H185	Total/NA	Soil	3050B	
160-26513-8	B3H188	Total/NA	Soil	3050B	
160-26513-9	B3H191	Total/NA	Soil	3050B	
MB 160-348803/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-348803/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-348803/3-A	Lab Control Sample	Total/NA	Solid	3050B	
160-26513-6 MS	B3H183	Total/NA	Soil	3050B	
160-26513-6 MSD	B3H183	Total/NA	Soil	3050B	

Metals (Continued)

Prep Batch: 348806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	3050B-Sb	
160-26495-2	B3H0H1	Total/NA	Soil	3050B-Sb	
160-26495-3	B3H0H4	Total/NA	Soil	3050B-Sb	
160-26495-4	B3H0H6	Total/NA	Soil	3050B-Sb	
160-26495-5	B3H0H9	Total/NA	Soil	3050B-Sb	
160-26495-6	B3H0K0	Total/NA	Soil	3050B-Sb	
160-26495-7	B3H0K3	Total/NA	Soil	3050B-Sb	
160-26495-8	B3H0K6	Total/NA	Soil	3050B-Sb	
160-26495-9	B3H0K9	Total/NA	Soil	3050B-Sb	
160-26513-1	B3H0M0	Total/NA	Soil	3050B-Sb	
160-26513-2	B3H0M3	Total/NA	Soil	3050B-Sb	
160-26513-3	B3H0M6	Total/NA	Soil	3050B-Sb	
160-26513-4	B3H0M9	Total/NA	Soil	3050B-Sb	
160-26513-5	B3H180	Total/NA	Soil	3050B-Sb	
MB 160-348806/1-A	Method Blank	Total/NA	Solid	3050B-Sb	
LCS 160-348806/2-A	Lab Control Sample	Total/NA	Solid	3050B-Sb	
160-26494-A-14-E MS	Matrix Spike	Total/NA	Solid	3050B-Sb	
160-26494-A-14-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B-Sb	

Prep Batch: 348807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26513-6	B3H183	Total/NA	Soil	3050B-Sb	
160-26513-7	B3H185	Total/NA	Soil	3050B-Sb	
160-26513-8	B3H188	Total/NA	Soil	3050B-Sb	
160-26513-9	B3H191	Total/NA	Soil	3050B-Sb	
MB 160-348807/1-A	Method Blank	Total/NA	Solid	3050B-Sb	
LCS 160-348807/2-A	Lab Control Sample	Total/NA	Solid	3050B-Sb	
160-26513-6 MS	B3H183	Total/NA	Soil	3050B-Sb	
160-26513-6 MSD	B3H183	Total/NA	Soil	3050B-Sb	

Prep Batch: 349346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	7471B	
160-26495-2	B3H0H1	Total/NA	Soil	7471B	
160-26495-3	B3H0H4	Total/NA	Soil	7471B	
160-26495-4	B3H0H6	Total/NA	Soil	7471B	
160-26495-5	B3H0H9	Total/NA	Soil	7471B	
160-26495-6	B3H0K0	Total/NA	Soil	7471B	
160-26495-7	B3H0K3	Total/NA	Soil	7471B	
160-26495-8	B3H0K6	Total/NA	Soil	7471B	
160-26495-9	B3H0K9	Total/NA	Soil	7471B	
160-26513-1	B3H0M0	Total/NA	Soil	7471B	
160-26513-2	B3H0M3	Total/NA	Soil	7471B	
160-26513-3	B3H0M6	Total/NA	Soil	7471B	
160-26513-4	B3H0M9	Total/NA	Soil	7471B	
160-26513-5	B3H180	Total/NA	Soil	7471B	
160-26513-6	B3H183	Total/NA	Soil	7471B	
160-26513-7	B3H185	Total/NA	Soil	7471B	
160-26513-8	B3H188	Total/NA	Soil	7471B	
160-26513-9	B3H191	Total/NA	Soil	7471B	
MB 160-349346/1-A	Method Blank	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 349346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 160-349346/2-A	Lab Control Sample	Total/NA	Solid	7471B	
160-26495-1 MS	B3H0F8	Total/NA	Soil	7471B	
160-26495-1 MSD	B3H0F8	Total/NA	Soil	7471B	

Analysis Batch: 349934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	7471B	349346
160-26495-2	B3H0H1	Total/NA	Soil	7471B	349346
160-26495-3	B3H0H4	Total/NA	Soil	7471B	349346
160-26495-4	B3H0H6	Total/NA	Soil	7471B	349346
160-26495-5	B3H0H9	Total/NA	Soil	7471B	349346
160-26495-6	B3H0K0	Total/NA	Soil	7471B	349346
160-26495-7	B3H0K3	Total/NA	Soil	7471B	349346
160-26495-8	B3H0K6	Total/NA	Soil	7471B	349346
160-26495-9	B3H0K9	Total/NA	Soil	7471B	349346
160-26513-1	B3H0M0	Total/NA	Soil	7471B	349346
160-26513-2	B3H0M3	Total/NA	Soil	7471B	349346
160-26513-3	B3H0M6	Total/NA	Soil	7471B	349346
160-26513-4	B3H0M9	Total/NA	Soil	7471B	349346
160-26513-5	B3H180	Total/NA	Soil	7471B	349346
160-26513-6	B3H183	Total/NA	Soil	7471B	349346
160-26513-7	B3H185	Total/NA	Soil	7471B	349346
160-26513-8	B3H188	Total/NA	Soil	7471B	349346
160-26513-9	B3H191	Total/NA	Soil	7471B	349346
MB 160-349346/1-A	Method Blank	Total/NA	Solid	7471B	349346
LCSSRM 160-349346/2-A	Lab Control Sample	Total/NA	Solid	7471B	349346
160-26495-1 MS	B3H0F8	Total/NA	Soil	7471B	349346
160-26495-1 MSD	B3H0F8	Total/NA	Soil	7471B	349346

Analysis Batch: 350531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	6020A	348806
160-26495-2	B3H0H1	Total/NA	Soil	6020A	348806
160-26495-3	B3H0H4	Total/NA	Soil	6020A	348806
160-26495-4	B3H0H6	Total/NA	Soil	6020A	348806
160-26495-5	B3H0H9	Total/NA	Soil	6020A	348806
160-26495-6	B3H0K0	Total/NA	Soil	6020A	348806
160-26495-7	B3H0K3	Total/NA	Soil	6020A	348806
160-26495-8	B3H0K6	Total/NA	Soil	6020A	348806
160-26495-9	B3H0K9	Total/NA	Soil	6020A	348806
160-26513-1	B3H0M0	Total/NA	Soil	6020A	348806
160-26513-2	B3H0M3	Total/NA	Soil	6020A	348806
160-26513-3	B3H0M6	Total/NA	Soil	6020A	348806
160-26513-4	B3H0M9	Total/NA	Soil	6020A	348806
160-26513-5	B3H180	Total/NA	Soil	6020A	348806
MB 160-348806/1-A	Method Blank	Total/NA	Solid	6020A	348806
LCS 160-348806/2-A	Lab Control Sample	Total/NA	Solid	6020A	348806
160-26494-A-14-E MS	Matrix Spike	Total/NA	Solid	6020A	348806
160-26494-A-14-F MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	348806

Metals (Continued)

Analysis Batch: 350656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26513-6	B3H183	Total/NA	Soil	6020A	348807
160-26513-7	B3H185	Total/NA	Soil	6020A	348807
160-26513-8	B3H188	Total/NA	Soil	6020A	348807
160-26513-9	B3H191	Total/NA	Soil	6020A	348807
MB 160-348807/1-A	Method Blank	Total/NA	Solid	6020A	348807
LCS 160-348807/2-A	Lab Control Sample	Total/NA	Solid	6020A	348807
160-26513-6 MS	B3H183	Total/NA	Soil	6020A	348807
160-26513-6 MSD	B3H183	Total/NA	Soil	6020A	348807

Analysis Batch: 352192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	6020A	348794
160-26495-2	B3H0H1	Total/NA	Soil	6020A	348794
160-26495-3	B3H0H4	Total/NA	Soil	6020A	348794
160-26495-4	B3H0H6	Total/NA	Soil	6020A	348794
160-26495-5	B3H0H9	Total/NA	Soil	6020A	348794
160-26495-6	B3H0K0	Total/NA	Soil	6020A	348794
160-26495-7	B3H0K3	Total/NA	Soil	6020A	348794
160-26495-8	B3H0K6	Total/NA	Soil	6020A	348794
160-26495-9	B3H0K9	Total/NA	Soil	6020A	348794
160-26513-1	B3H0M0	Total/NA	Soil	6020A	348794
160-26513-2	B3H0M3	Total/NA	Soil	6020A	348794
160-26513-3	B3H0M6	Total/NA	Soil	6020A	348794
160-26513-4	B3H0M9	Total/NA	Soil	6020A	348794
160-26513-5	B3H180	Total/NA	Soil	6020A	348794
MB 160-348794/1-A	Method Blank	Total/NA	Solid	6020A	348794
LCS 160-348794/2-A	Lab Control Sample	Total/NA	Solid	6020A	348794
LCSSRM 160-348794/3-A	Lab Control Sample	Total/NA	Solid	6020A	348794
160-26494-A-14-B MS	Matrix Spike	Total/NA	Solid	6020A	348794
160-26494-A-14-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	348794

Analysis Batch: 352193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26513-6	B3H183	Total/NA	Soil	6020A	348803
160-26513-7	B3H185	Total/NA	Soil	6020A	348803
160-26513-8	B3H188	Total/NA	Soil	6020A	348803
160-26513-9	B3H191	Total/NA	Soil	6020A	348803
MB 160-348803/1-A	Method Blank	Total/NA	Solid	6020A	348803
LCS 160-348803/2-A	Lab Control Sample	Total/NA	Solid	6020A	348803
LCSSRM 160-348803/3-A	Lab Control Sample	Total/NA	Solid	6020A	348803
160-26513-6 MS	B3H183	Total/NA	Soil	6020A	348803
160-26513-6 MSD	B3H183	Total/NA	Soil	6020A	348803

General Chemistry

Analysis Batch: 347823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	Moisture	
160-26495-2	B3H0H1	Total/NA	Soil	Moisture	
160-26495-3	B3H0H4	Total/NA	Soil	Moisture	

General Chemistry (Continued)

Analysis Batch: 347823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-4	B3H0H6	Total/NA	Soil	Moisture	
160-26495-5	B3H0H9	Total/NA	Soil	Moisture	
160-26495-6	B3H0K0	Total/NA	Soil	Moisture	
160-26495-7	B3H0K3	Total/NA	Soil	Moisture	
160-26495-8	B3H0K6	Total/NA	Soil	Moisture	
160-26495-9	B3H0K9	Total/NA	Soil	Moisture	
160-26495-9 DU	B3H0K9	Total/NA	Soil	Moisture	

Analysis Batch: 348133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26513-1	B3H0M0	Total/NA	Soil	Moisture	
160-26513-2	B3H0M3	Total/NA	Soil	Moisture	
160-26513-3	B3H0M6	Total/NA	Soil	Moisture	
160-26513-4	B3H0M9	Total/NA	Soil	Moisture	
160-26513-5	B3H180	Total/NA	Soil	Moisture	
160-26513-6	B3H183	Total/NA	Soil	Moisture	
160-26513-7	B3H185	Total/NA	Soil	Moisture	
160-26513-8	B3H188	Total/NA	Soil	Moisture	
160-26513-9	B3H191	Total/NA	Soil	Moisture	
160-26513-1 DU	B3H0M0	Total/NA	Soil	Moisture	

Prep Batch: 350078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26513-5	B3H180	Total/NA	Soil	9010C	
160-26513-6	B3H183	Total/NA	Soil	9010C	
160-26513-7	B3H185	Total/NA	Soil	9010C	
160-26513-8	B3H188	Total/NA	Soil	9010C	
160-26513-9	B3H191	Total/NA	Soil	9010C	
MB 160-350078/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 160-350078/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 160-350078/2-A	Lab Control Sample	Total/NA	Solid	9010C	
160-26513-5 MS	B3H180	Total/NA	Soil	9010C	
160-26513-5 DU	B3H180	Total/NA	Soil	9010C	

Analysis Batch: 350313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26513-5	B3H180	Total/NA	Soil	9012B	350078
160-26513-6	B3H183	Total/NA	Soil	9012B	350078
160-26513-7	B3H185	Total/NA	Soil	9012B	350078
160-26513-8	B3H188	Total/NA	Soil	9012B	350078
160-26513-9	B3H191	Total/NA	Soil	9012B	350078
MB 160-350078/1-A	Method Blank	Total/NA	Solid	9012B	350078
HLCS 160-350078/3-A	Lab Control Sample	Total/NA	Solid	9012B	350078
LCS 160-350078/2-A	Lab Control Sample	Total/NA	Solid	9012B	350078
160-26513-5 MS	B3H180	Total/NA	Soil	9012B	350078
160-26513-5 DU	B3H180	Total/NA	Soil	9012B	350078

Prep Batch: 351913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	DILeach_Prep	
160-26495-2	B3H0H1	Total/NA	Soil	DILeach_Prep	

General Chemistry (Continued)

Prep Batch: 351913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-3	B3H0H4	Total/NA	Soil	DILeach_Prep	
160-26495-4	B3H0H6	Total/NA	Soil	DILeach_Prep	
160-26495-5	B3H0H9	Total/NA	Soil	DILeach_Prep	
160-26495-6	B3H0K0	Total/NA	Soil	DILeach_Prep	
160-26495-7	B3H0K3	Total/NA	Soil	DILeach_Prep	
160-26495-8	B3H0K6	Total/NA	Soil	DILeach_Prep	
160-26495-9	B3H0K9	Total/NA	Soil	DILeach_Prep	
160-26513-1	B3H0M0	Total/NA	Soil	DILeach_Prep	
160-26513-2	B3H0M3	Total/NA	Soil	DILeach_Prep	
160-26513-3	B3H0M6	Total/NA	Soil	DILeach_Prep	
160-26513-4	B3H0M9	Total/NA	Soil	DILeach_Prep	
160-26513-5	B3H180	Total/NA	Soil	DILeach_Prep	
160-26513-6	B3H183	Total/NA	Soil	DILeach_Prep	
160-26513-7	B3H185	Total/NA	Soil	DILeach_Prep	
160-26513-8	B3H188	Total/NA	Soil	DILeach_Prep	
160-26513-9	B3H191	Total/NA	Soil	DILeach_Prep	
MB 160-351913/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	
LCS 160-351913/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
160-26495-1 MS	B3H0F8	Total/NA	Soil	DILeach_Prep	
160-26513-1 MS	B3H0M0	Total/NA	Soil	DILeach_Prep	
160-26495-1 DU	B3H0F8	Total/NA	Soil	DILeach_Prep	

Analysis Batch: 352311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26495-1	B3H0F8	Total/NA	Soil	350.1	351913
160-26495-2	B3H0H1	Total/NA	Soil	350.1	351913
160-26495-3	B3H0H4	Total/NA	Soil	350.1	351913
160-26495-4	B3H0H6	Total/NA	Soil	350.1	351913
160-26495-5	B3H0H9	Total/NA	Soil	350.1	351913
160-26495-6	B3H0K0	Total/NA	Soil	350.1	351913
160-26495-7	B3H0K3	Total/NA	Soil	350.1	351913
160-26495-8	B3H0K6	Total/NA	Soil	350.1	351913
160-26495-9	B3H0K9	Total/NA	Soil	350.1	351913
160-26513-1	B3H0M0	Total/NA	Soil	350.1	351913
160-26513-2	B3H0M3	Total/NA	Soil	350.1	351913
160-26513-3	B3H0M6	Total/NA	Soil	350.1	351913
160-26513-4	B3H0M9	Total/NA	Soil	350.1	351913
160-26513-5	B3H180	Total/NA	Soil	350.1	351913
160-26513-6	B3H183	Total/NA	Soil	350.1	351913
160-26513-7	B3H185	Total/NA	Soil	350.1	351913
160-26513-8	B3H188	Total/NA	Soil	350.1	351913
160-26513-9	B3H191	Total/NA	Soil	350.1	351913
MB 160-351913/1-A	Method Blank	Total/NA	Solid	350.1	351913
LCS 160-351913/2-A	Lab Control Sample	Total/NA	Solid	350.1	351913
160-26495-1 MS	B3H0F8	Total/NA	Soil	350.1	351913
160-26513-1 MS	B3H0M0	Total/NA	Soil	350.1	351913
160-26495-1 DU	B3H0F8	Total/NA	Soil	350.1	351913

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Soil **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
160-26495-1	B3H0F8	76	81	78	74	78	90
160-26495-2	B3H0H1	75	81	80	78	82	92
160-26495-2 MS	B3H0H1	75	81	77	75	79	87
160-26495-2 MSD	B3H0H1	78	83	81	78	83	89
160-26495-3	B3H0H4	78	81	78	76	79	87
160-26495-4	B3H0H6	75	81	77	74	78	88
160-26495-5	B3H0H9	72	77	74	73	76	81
160-26495-6	B3H0K0	74	77	75	71	75	85
160-26495-7	B3H0K3	72	78	67	69	71	87
160-26495-8	B3H0K6	77	85	80	77	81	89
160-26495-9	B3H0K9	76	80	77	73	79	86

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
LCS 160-349157/2-A	Lab Control Sample	78	84	83	79	84	93
MB 160-349157/1-A	Method Blank	76	84	82	79	82	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Soil **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH1
Lab Sample ID	Client Sample ID	(49-133)
160-26495-1	B3H0F8	88
160-26495-1 MS	B3H0F8	106
160-26495-1 MSD	B3H0F8	121
160-26495-2	B3H0H1	111
160-26495-3	B3H0H4	103
160-26495-4	B3H0H6	80
160-26495-5	B3H0H9	84

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F17-062

TestAmerica Job ID: 160-26495-1
SDG: SL2797

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Soil **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OTPH1 (49-133)							
160-26495-6	B3H0K0	106							
160-26495-7	B3H0K3	77							
160-26495-8	B3H0K6	106							
160-26495-9	B3H0K9	118							

Surrogate Legend

OTPH = o-Terphenyl

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	OTPH1 (49-133)							
LCS 160-348816/2-A	Lab Control Sample	117							
MB 160-348816/1-A	Method Blank	112							

Surrogate Legend

OTPH = o-Terphenyl