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: 160-26494-1
TestAmerica Sample Delivery Group: SL2796
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:
2/22/2018 6:15:29 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Chain of Custody 7
Definitions/Glossary 29
Method Summary 30
Sample Summary 31
Client Sample Results 32
QC Sample Results 54
QC Association Summary 64
Surrogate Summary 73

Job ID: 160-26494-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

CH2MHill Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352
February 22, 2018
Attention: Scot Fitzgerald

SDG	: SL2796
Number of Samples	: 19 samples
Sample Matrix	: Soil
Data Deliverable	: Summary
Date SDG Closed	: January 24, 2018

II. Introduction

On January 24, 19 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

Job ID: 160-26494-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

non-conformance in the sections below.

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.

ICPMS Metals

Batch: 351826

The low level check (CCVL) was outside upper QC limits for Manganese. The concentration of this analyte in the samples was at such a high level as to make the CCVL unnecessary. (CCVL 160-351826/64) and (CCVL 160-351826/84)

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: B3FMM7 (160-26494-1), B3FMN0 (160-26494-2), B3FMN3 (160-26494-3), B3FMN6 (160-26494-4), B3FMN8 (160-26494-5), B3FMP1 (160-26494-6), B3FMP4 (160-26494-7), B3FMR5 (160-26494-8), B3FMR8 (160-26494-9), B3FMT1 (160-26494-10), B3FMT4 (160-26494-11), B3FMT7 (160-26494-12), B3FMV0 (160-26494-13), (160-26464-B-1-A), (160-26464-B-1-B MS), (160-26464-B-1-C MSD) and (160-26464-B-1-A SD). Elevated reporting limits (RLs) are provided. These analytes have been qualified accordingly with a "D" flag in the associated samples.

The recovery for the CCVL bracketing the method blank was outside the upper QC limit for Manganese indicating a potential high bias. The method blank was below the RL. No further action is required. (CCVL 160-351826/38)

The low level check (CCVL) was outside the upper QC limits for Cadmium and Copper. Associated samples which are either below the

Job ID: 160-26494-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

reporting limit for the contaminant or exhibit concentrations at such a high level as to make the CCVL unnecessary do not require re-analysis. Original results are reported. (CCVL 160-351826/51)

Due to the high concentration of Aluminum and Manganese, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-348793 and analytical batch 160-351826 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-26464-B-1-B MS) and (160-26464-B-1-C MSD)

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 the method blank 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 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-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: B3FMW1 (160-26494-14), B3FMW4 (160-26494-15), B3FMW7 (160-26494-16), B3FMX0 (160-26494-17), B3FMX3 (160-26494-18), B3FMX6 (160-26494-19), (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: 349413

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: B3FMM7 (160-26494-1), B3FMN0 (160-26494-2), B3FMN3 (160-26494-3), B3FMN6 (160-26494-4), B3FMN8 (160-26494-5), B3FMP1 (160-26494-6), B3FMP4 (160-26494-7), B3FMR5 (160-26494-8), B3FMR8 (160-26494-9), B3FMT1 (160-26494-10), B3FMT4 (160-26494-11), B3FMT7 (160-26494-12), B3FMV0 (160-26494-13), (160-26464-B-1-D), (160-26464-B-1-E MS), (160-26464-B-1-F MSD) and (160-26464-B-1-D SD). Elevated reporting limits (RLs) are provided. This analyte has 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: B3FMW1 (160-26494-14), B3FMW4 (160-26494-15), B3FMW7 (160-26494-16), B3FMX0 (160-26494-17), B3FMX3 (160-26494-18), B3FMX6 (160-26494-19), (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.

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

Semivolatiles
WTPH Diesel
Mercury
Ammonia as N
Total Cyanide

Job ID: 160-26494-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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: 160-26494-1
SDG Number: SL2796

Login Number: 26494
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, 1.6
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			F17-062-285	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9850, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-375	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-6	ACTUAL SAMPLE DEPTH: 1.9 to 4.5 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.: 7713002013 22		

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: B3FMM5~~
JAN 2 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMM7	N/A	SOIL	JAN 2 2 2018	0915	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 2 2 2018 1425	SSU-1	JAN 2 2 2018 1425
SSU-1	JAN 2 3 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1-24-18 0945

SPECIAL INSTRUCTIONS
TRVL-18-013
(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 10/24/2017 FSR ID = FSR52887 TRVL NUM = TRVL-18-013 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-288	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL27796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9850, Shallow Sample 2	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-375	FIELD LOGBOOK NO.: HNF-N-645-61	ACTUAL SAMPLE DEPTH: 4.5 to 6.6 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.: 7713002013 22		

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: B3FMM8~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMN0	N/A	SOIL	JAN 22 2018	0925	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-013
(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 10/24/2017 FSR ID = FSR52888 TRVL NUM = TRVL-18-013 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-062-291	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	REQUIRED TAT
Daniel Klug CHPRC SL2796	FITZGERALD, SL	373-7495	FITZGERALD, SL	30 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	ORIGINAL
C9850, Shallow Sample 3	200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		F17-062	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**PURCHASE ORDER/CHARGE CODE**	**METHOD OF SHIPMENT**
GW5-375	HNF-N-645-6/75	6.6 to 8.4 Ft	303971	FEDERAL EXPRESS
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**	
TestAmerica St. Louis	N/A		7713 0020 1322	

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: B3FMN1~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMN3	N/A	SOIL	JAN 22 2018	0945	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke 1-24-18 0845	

SPECIAL INSTRUCTIONS
TRVL-18-013
(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 10/24/2017 FSR ID = FSR52889 TRVL NUM = TRVL-18-013 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-062-294	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	REQUIRED TAT
Daniel Klug CHPRC SL2796	FITZGERALD, SL	373-7495	FITZGERALD, SL	30 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C9850, Shallow Sample 4	200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017	F17-062

ORIGINAL

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	PURCHASE ORDER/CHARGE CODE	METHOD OF SHIPMENT
GWS-375	HNF-N-645-6/75	8.4 to 10.1 FT	303971	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
TestAmerica St. Louis	N/A	771300201322

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: B3FMN4~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMN6	N/A	SOIL	JAN 22 2018	0855	✓	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1-24-18 0945

SPECIAL INSTRUCTIONS
TRVL-18-013
(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 10/24/2017 FSR ID = FSR52890 TRVL NUM = TRVL-18-013 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-296	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9850, Shallow Sample / DUP 1 1-22-18	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-375	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-6/75	ACTUAL SAMPLE DEPTH: 1.9 to 4.5 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.: 7713002013 22		

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: B3FMN4~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMN8	N/A	SOIL	JAN 22 2018	0915	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.K.	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jim Clarke Jim Clarke	1-24-18 0945

SPECIAL INSTRUCTIONS
TRVL-18-013
(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 = FSR52891 TRVL NUM = TRVL-18-013 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F17-062-299	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	REQUIRED TAT
Daniel Klug CHPRC SL2794	FITZGERALD, SL	373-7495	FITZGERALD, SL	30 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	ORIGINAL
C9850, Shallow Sample 5	200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		F17-062	
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**PURCHASE ORDER/CHARGE CODE**	**METHOD OF SHIPMENT**
GWS-375	~~HNF-N~~ 6 EF-61	10.1 to 12.0 ft	303971	FEDERAL EXPRESS
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**	
TestAmerica St. Louis	N/A		771300201322	

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: B3FMN9~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMP1	N/A	SOIL	JAN 22 2018	0858	✓	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
	FED EX	Jill Clark Jill Clark	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-013
(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 10/24/2017 FSR ID = FSR52892 TRVL NUM = TRVL-18-013 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-302	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2794	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9850, Shallow Sample 6	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GLOS-374	FIELD LOGBOOK NO.: HNF-N-645-8/75	ACTUAL SAMPLE DEPTH: 13.0 to 15.1 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.: 7713001866 82		

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: B3FMP2~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMP4	N/A	SOIL	JAN 22 2018	1000	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-013
(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 10/24/2017 FSR ID = FSR52874 TRVL NUM = TRVL-18-013 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-313	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION: C9851, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-375	FIELD LOGBOOK NO.: ~~EFN~~ N-645-6/25	ACTUAL SAMPLE DEPTH: 1.9 to 4.0 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.: 771300201322		

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: B3FMR3~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMR5	N/A	SOIL	JAN 22 2018	1140	✓	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clarke J.H Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-014
(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 10/24/2017 FSR ID = FSR52897 TRVL NUM = TRVL-18-014 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-316	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2794	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9851, Shallow Sample 2 dw. 1/23/18	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-3C 374	FIELD LOGBOOK NO.: 645-6/75	ACTUAL SAMPLE DEPTH: 4.0 to 6.5 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.: 771300186682		

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: B3FMR8~~
JAN 2 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMR8	N/A	SOIL	JAN 2 2 2018	1158	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.Klug	JAN 2 2 2018 1425	SSU-1	JAN 2 2 2018 1425
SSU-1	JAN 2 3 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke 1.24.18 0945	

SPECIAL INSTRUCTIONS
TRVL-18-014
(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 10/24/2017 FSR ID = FSR52898 TRVL NUM = TRVL-18-014 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-319	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2794	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9851, Shallow Sample 3	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-375	FIELD LOGBOOK NO.: [illegible]-645-B/25	ACTUAL SAMPLE DEPTH: 6.5 to 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.: 771300201322		

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: B3FMR9~~
JAN 2 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMT1	N/A	SOIL	JAN 2 2 2018	1205	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC	JAN 2 2 2018 1425	SSU-1	JAN 2 2 2018 1425
SSU-1	JAN 2 3 2018 0730	Lesly Wall /CHPRC	JAN 2 3 2018 0730
Lesly Wall /CHPRC	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clarke J. Clarke 1.24.18 0945	

SPECIAL INSTRUCTIONS
TRVL-18-014
(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 10/24/2017 FSR ID = FSR52899 TRVL NUM = TRVL-18-014 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-322	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9851, Shallow Sample 4	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-374	FIELD LOGBOOK NO.: 645-6/75	ACTUAL SAMPLE DEPTH: 8.0 to 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.: 771300186682		

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: B3FMT2~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMT4	N/A	SOIL	JAN 22 2018	1207	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.KL	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark 1.24.18 0945	

SPECIAL INSTRUCTIONS
TRVL-18-014
(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 10/24/2017 FSR ID = FSR52900 TRVL NUM = TRVL-18-014 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-325	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9851, Shallow Sample 5	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-375	FIELD LOGBOOK NO.: HNF-N-645 6 - 75	ACTUAL SAMPLE DEPTH: 10.1 to 12.5 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.: 771300201322		

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: B3FMT5~~ OK 1-22-18

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMT7	N/A	SOIL	JAN 22 2018	1215	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-014
(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 10/24/2017 FSR ID = FSR52901 TRVL NUM = TRVL-18-014 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-328	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9851, Shallow Sample 6	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-374	FIELD LOGBOOK NO.: ~~HNF-N~~ 645-61/>r	ACTUAL SAMPLE DEPTH: 12.5 to 15.1	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.: 7713001866 82		

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: B3FMT8~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMV0	N/A	SOIL	JAN 22 2018	1217	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC	JAN 23 2018 0730
Lesly Wall /CHPRC	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-014
(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 10/24/2017 FSR ID = FSR52893 TRVL NUM = TRVL-18-014 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-339	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION: C9852, Shallow Sample 1	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-374	FIELD LOGBOOK NO.: HNF-N-645 6 - 75	ACTUAL SAMPLE DEPTH: 2.2 to 4.2 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.: 771300186682		

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: B3FMV9~~
JAN 2 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMW1	N/A	SOIL	JAN 2 2 2018	1318	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.K.	JAN 2 2 2018 1425	SSU-1	JAN 2 2 2018 1425
SSU-1	JAN 2 3 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-015
(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 10/24/2017 FSR ID = FSR52905 TRVL NUM = TRVL-18-015 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-342	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9852, Shallow Sample 2	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-375	FIELD LOGBOOK NO.: HNF-N-645 6 - 75	ACTUAL SAMPLE DEPTH: 4.2 to 6.8 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 0020 1322		

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: B3FMW2~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMW4	N/A	SOIL	JAN 22 2018	1325	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark	1-24-18 0945

SPECIAL INSTRUCTIONS
TRVL-18-015
(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 10/24/2017 FSR ID = FSR52906 TRVL NUM = TRVL-18-015 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-345	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2794	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9852, Shallow Sample 3	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-374	FIELD LOGBOOK NO.: HNF-N-645 ~~4~~ - 75	ACTUAL SAMPLE DEPTH: 6.4 to 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.: 771300186682		

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: B3FMW5~~

JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMW7	N/A	SOIL	JAN 22 2018	1333	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clark Jill Clark 1.24.18 0945	

SPECIAL INSTRUCTIONS
TRVL-18-015
(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 10/24/2017 FSR ID = FSR52902 TRVL NUM = TRVL-18-015 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-348	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC S12796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9852, Shallow Sample 4	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-374	FIELD LOGBOOK NO.: HNF-N-645 6 - 75	ACTUAL SAMPLE DEPTH: 8.0 to 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.: 771300186682		

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: B3FMW8~~
JAN 2 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMX0	N/A	SOIL	JAN 2 2 2018	1335	✓	✓	✓	✓	✓

CHAIN OF POSSESSION: RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D. Klug	JAN 2 2 2018 1425	SSU-1	JAN 2 2 2018 1425
SSU-1	JAN 2 3 2018 0730	Leely Wall /CHPRC Leely Wall	JAN 2 3 2018 0730
Leely Wall /CHPRC Leely Wall	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke	1.24.18 0945

SPECIAL INSTRUCTIONS
TRVL-18-015
(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 10/24/2017 FSR ID = FSR52903 TRVL NUM = TRVL-18-015 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-351	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT 30 Days	
SAMPLING LOCATION: C9852, Shallow Sample 5	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GW5-375	FIELD LOGBOOK NO.: NF-N-645 6 -75	ACTUAL SAMPLE DEPTH: 10.0 to 12.5 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 0020 1322		

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: B3FMX1~~
JAN 22 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMX3	N/A	SOIL	JAN 22 2018	1345	✓	✓	✓	✓	✓

CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM	DATE/TIME	SIGN/ PRINT NAMES RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D-KL	JAN 22 2018 1425	SSU-1	JAN 22 2018 1425
SSU-1	JAN 23 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 23 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke 1-24-18 0945	

SPECIAL INSTRUCTIONS
TRVL-18-015
(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 10/24/2017 FSR ID = FSR52904 TRVL NUM = TRVL-18-015 A-6003-618 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F17-062-354	PAGE 1 OF 1
COLLECTOR: Daniel Klug CHPRC SL2796	COMPANY CONTACT: FITZGERALD, SL	TELEPHONE NO.: 373-7495	PROJECT COORDINATOR: FITZGERALD, SL	REQUIRED TAT: 30 Days	
SAMPLING LOCATION: C9852, Shallow Sample 6	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization - Shallow Sampling - Soil 2017		SAF NO.: F17-062	ORIGINAL	
ICE CHEST NO.: GWS-374	FIELD LOGBOOK NO.: HNF-N-645 E-25	ACTUAL SAMPLE DEPTH: 12.5 to 15.2 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.: 771300186682		

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: B3FMX4*~~
JAN 2 2 2018

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	28 Days	28 Days	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P	aG
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	250mL	60mL	40mL
SAMPLE ANALYSIS	8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};	WTPH_KEROSENE: COMMON;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON;	9012_CYANIDE (TOTAL): COMMON;

SAMPLE NO.	FILTERED	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B3FMX6	N/A	SOIL	JAN 2 2 2018	1348	✓	✓	✓	✓	✓

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Daniel Klug CHPRC D.Klug	JAN 2 2 2018 1425	SSU-1	JAN 2 2 2018 1425
SSU-1	JAN 2 3 2018 0730	Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 0730
Lesly Wall /CHPRC Lesly Wall	JAN 2 3 2018 1400	FEDEX	
FED EX		Jill Clarke Jill Clarke 1.24.18 0945	

SPECIAL INSTRUCTIONS
TRVL-18-015
(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 10/24/2017 FSR ID = FSR52907 TRVL NUM = TRVL-18-015 A-6003-618 (REV 3)

Ex. Shipping Tracking Printing Services Locations Support Sign In

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

FedEx ® Tracking

771300201322

Ship date:
Tue 1/23/2018

Richland, WA US

Delivered
Signed for by: J.CLARKE

Actual delivery:
Wed 1/24/2018 9:36 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 1/24/2018 - Wednesday		
9:36 am	Delivered	EARTH CITY, MO
7:51 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
10:06 am	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771300201322	**Service**	FedEx Standard Overnight
Weight	75 lbs / 34.02 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	75 lbs / 34.02 kgs
Terms	Recipient	**Shipper reference**	GWS-375
Packaging	Your Packaging	**Special handling section**	Deliver Weekday
Standard transit	1/24/2018 by 3:00 pm		

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country
English

Ask FedEx

FOLLOW FEDEX

© FedEx 1995-2018

Feedback | Site Map | Terms of Use | Security & Privacy

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

FedEx® Tracking

771300186682

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
7:39 am	On FedEx vehicle for delivery	EARTH CITY, MO
7:35 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
10:05 am	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771300186682	**Service**	FedEx Standard Overnight
Weight	74 lbs / 33.57 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	74 lbs / 33.57 kgs
Terms	Recipient	**Shipper reference**	GWS-374
Packaging	Your Packaging	**Special handling section**	Deliver Weekday
Standard transit	1/24/2018 by 3:00 pm		

OUR COMPANY
About FedEx
FedEx Blog
Our Portfolio
Corporate Responsibility
Investor Relations
Newsroom
Careers
Contact Us

MORE FROM FEDEX
FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE
Change Country
English

Ask FedEx

FOLLOW FEDEX

© FedEx 1995-2018

Feedback | Site Map | Terms of Use | Security & Privacy

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
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL
N	Recovery exceeds upper or lower control limits

General Chemistry

Qualifier	Qualifier Description
U	Analyzed for but not detected.
B	Estimated result. Result is less than the RL, but greater than MDL

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: 160-26494-1
SDG: SL2796

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: 160-26494-1
SDG: SL2796

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-26494-1	B3FMM7	Soil	01/22/18 09:15	01/24/18 09:45
160-26494-2	B3FMN0	Soil	01/22/18 09:25	01/24/18 09:45
160-26494-3	B3FMN3	Soil	01/22/18 09:45	01/24/18 09:45
160-26494-4	B3FMN6	Soil	01/22/18 09:55	01/24/18 09:45
160-26494-5	B3FMN8	Soil	01/22/18 09:15	01/24/18 09:45
160-26494-6	B3FMP1	Soil	01/22/18 09:58	01/24/18 09:45
160-26494-7	B3FMP4	Soil	01/22/18 10:00	01/24/18 09:45
160-26494-8	B3FMR5	Soil	01/22/18 11:40	01/24/18 09:45
160-26494-9	B3FMR8	Soil	01/22/18 11:58	01/24/18 09:45
160-26494-10	B3FMT1	Soil	01/22/18 12:05	01/24/18 09:45
160-26494-11	B3FMT4	Soil	01/22/18 12:07	01/24/18 09:45
160-26494-12	B3FMT7	Soil	01/22/18 12:15	01/24/18 09:45
160-26494-13	B3FMV0	Soil	01/22/18 12:17	01/24/18 09:45
160-26494-14	B3FMW1	Soil	01/22/18 13:18	01/24/18 09:45
160-26494-15	B3FMW4	Soil	01/22/18 13:25	01/24/18 09:45
160-26494-16	B3FMW7	Soil	01/22/18 13:33	01/24/18 09:45
160-26494-17	B3FMX0	Soil	01/22/18 13:35	01/24/18 09:45
160-26494-18	B3FMX3	Soil	01/22/18 13:45	01/24/18 09:45
160-26494-19	B3FMX6	Soil	01/22/18 13:48	01/24/18 09:45

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Client Sample ID: B3FMM7 — **Lab Sample ID: 160-26494-1**
Date Collected: 01/22/18 09:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	01/31/18 15:09	02/05/18 12:23	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*710*	*N*	*ug/Kg*	☼	*2.70*		*01/31/18 15:09*	*02/05/18 12:23*	*1*
3-Penten-2-one, 4-methyl-	*420*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
Unknown	*11000*	*N*	*ug/Kg*	☼	*4.02*		*01/31/18 15:09*	*02/05/18 12:23*	*1*
Unknown	*290*	*N*	*ug/Kg*	☼	*4.54*		*01/31/18 15:09*	*02/05/18 12:23*	*1*
n-Hexadecanoic acid	*470*	*N J*	*ug/Kg*	☼	*10.20*	*57-10-3*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
Bromacil	*170*	*N J*	*ug/Kg*	☼	*10.26*	*314-40-9*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
Cycloeicosane	*900*	*N J*	*ug/Kg*	☼	*12.49*	*296-56-0*	*01/31/18 15:09*	*02/05/18 12:23*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*47 - 125*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
2-Fluorobiphenyl (Surr)	*76*		*59 - 110*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
2-Fluorophenol (Surr)	*77*		*54 - 102*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
Nitrobenzene-d5 (Surr)	*73*		*44 - 120*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
Phenol-d5 (Surr)	*79*		*51 - 104*	*01/31/18 15:09*	*02/05/18 12:23*	*1*
Terphenyl-d14 (Surr)	*88*		*59 - 98*	*01/31/18 15:09*	*02/05/18 12:23*	*1*

Client Sample ID: B3FMN0 — **Lab Sample ID: 160-26494-2**
Date Collected: 01/22/18 09:25 — **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	☼	01/31/18 15:09	02/05/18 12:50	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*400*	*N*	*ug/Kg*	☼	*2.70*		*01/31/18 15:09*	*02/05/18 12:50*	*1*
3-Penten-2-one, 4-methyl-	*350*	*N J*	*ug/Kg*	☼	*3.66*	*141-79-7*	*01/31/18 15:09*	*02/05/18 12:50*	*1*
Unknown	*13000*	*N*	*ug/Kg*	☼	*4.03*		*01/31/18 15:09*	*02/05/18 12:50*	*1*
Unknown	*320*	*N*	*ug/Kg*	☼	*4.55*		*01/31/18 15:09*	*02/05/18 12:50*	*1*
n-Hexadecanoic acid	*600*	*N J*	*ug/Kg*	☼	*10.21*	*57-10-3*	*01/31/18 15:09*	*02/05/18 12:50*	*1*
Cycloeicosane	*1000*	*N J*	*ug/Kg*	☼	*12.52*	*296-56-0*	*01/31/18 15:09*	*02/05/18 12:50*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*47 - 125*	*01/31/18 15:09*	*02/05/18 12:50*	*1*
2-Fluorobiphenyl (Surr)	*81*		*59 - 110*	*01/31/18 15:09*	*02/05/18 12:50*	*1*
2-Fluorophenol (Surr)	*84*		*54 - 102*	*01/31/18 15:09*	*02/05/18 12:50*	*1*
Nitrobenzene-d5 (Surr)	*79*		*44 - 120*	*01/31/18 15:09*	*02/05/18 12:50*	*1*
Phenol-d5 (Surr)	*86*		*51 - 104*	*01/31/18 15:09*	*02/05/18 12:50*	*1*
Terphenyl-d14 (Surr)	*95*		*59 - 98*	*01/31/18 15:09*	*02/05/18 12:50*	*1*

Client Sample ID: B3FMN3 — **Lab Sample ID: 160-26494-3**
Date Collected: 01/22/18 09:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	01/31/18 15:09	02/05/18 13:18	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*270*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*01/31/18 15:09*	*02/05/18 13:18*	*1*
Unknown	*12000*	*N*	*ug/Kg*	☼	*4.02*		*01/31/18 15:09*	*02/05/18 13:18*	*1*
Unknown	*280*	*N*	*ug/Kg*	☼	*4.54*		*01/31/18 15:09*	*02/05/18 13:18*	*1*

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Client Sample ID: B3FMN3 — **Lab Sample ID: 160-26494-3**
Date Collected: 01/22/18 09:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.9**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
n-Hexadecanoic acid	150	N J	ug/Kg	☼	10.21	57-10-3	01/31/18 15:09	02/05/18 13:18	1
Cycloeicosane	870	N J	ug/Kg	☼	12.53	296-56-0	01/31/18 15:09	02/05/18 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	90		47 - 125	01/31/18 15:09	02/05/18 13:18	1
2-Fluorobiphenyl (Surr)	82		59 - 110	01/31/18 15:09	02/05/18 13:18	1
2-Fluorophenol (Surr)	82		54 - 102	01/31/18 15:09	02/05/18 13:18	1
Nitrobenzene-d5 (Surr)	80		44 - 120	01/31/18 15:09	02/05/18 13:18	1
Phenol-d5 (Surr)	84		51 - 104	01/31/18 15:09	02/05/18 13:18	1
Terphenyl-d14 (Surr)	95		59 - 98	01/31/18 15:09	02/05/18 13:18	1

Client Sample ID: B3FMN6 — **Lab Sample ID: 160-26494-4**
Date Collected: 01/22/18 09:55 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	50	U	360	50	ug/Kg	☼	01/31/18 15:09	02/05/18 14:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	300	N J	ug/Kg	☼	3.65	141-79-7	01/31/18 15:09	02/05/18 14:40	1
Unknown	13000	N	ug/Kg	☼	4.02		01/31/18 15:09	02/05/18 14:40	1
Unknown	290	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 14:40	1
Cyclopentadecane	250	N J	ug/Kg	☼	12.54	295-48-7	01/31/18 15:09	02/05/18 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		47 - 125	01/31/18 15:09	02/05/18 14:40	1
2-Fluorobiphenyl (Surr)	86		59 - 110	01/31/18 15:09	02/05/18 14:40	1
2-Fluorophenol (Surr)	85		54 - 102	01/31/18 15:09	02/05/18 14:40	1
Nitrobenzene-d5 (Surr)	82		44 - 120	01/31/18 15:09	02/05/18 14:40	1
Phenol-d5 (Surr)	86		51 - 104	01/31/18 15:09	02/05/18 14:40	1
Terphenyl-d14 (Surr)	96		59 - 98	01/31/18 15:09	02/05/18 14:40	1

Client Sample ID: B3FMN8 — **Lab Sample ID: 160-26494-5**
Date Collected: 01/22/18 09:15 — **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	340	48	ug/Kg	☼	01/31/18 15:09	02/05/18 15:07	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	450	N	ug/Kg	☼	2.70		01/31/18 15:09	02/05/18 15:07	1
3-Penten-2-one, 4-methyl-	380	N J	ug/Kg	☼	3.64	141-79-7	01/31/18 15:09	02/05/18 15:07	1
Unknown	12000	N	ug/Kg	☼	4.02		01/31/18 15:09	02/05/18 15:07	1
Unknown	250	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 15:07	1
Bromacil	190	N J	ug/Kg	☼	10.25	314-40-9	01/31/18 15:09	02/05/18 15:07	1
Unknown	170	N	ug/Kg	☼	12.57		01/31/18 15:09	02/05/18 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		47 - 125	01/31/18 15:09	02/05/18 15:07	1
2-Fluorobiphenyl (Surr)	84		59 - 110	01/31/18 15:09	02/05/18 15:07	1
2-Fluorophenol (Surr)	84		54 - 102	01/31/18 15:09	02/05/18 15:07	1
Nitrobenzene-d5 (Surr)	78		44 - 120	01/31/18 15:09	02/05/18 15:07	1
Phenol-d5 (Surr)	83		51 - 104	01/31/18 15:09	02/05/18 15:07	1

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

Client Sample ID: B3FMN8 — **Lab Sample ID: 160-26494-5**
Date Collected: 01/22/18 09:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.9**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	94		59 - 98	01/31/18 15:09	02/05/18 15:07	1

Client Sample ID: B3FMP1 — **Lab Sample ID: 160-26494-6**
Date Collected: 01/22/18 09:58 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 81.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	56	U	400	56	ug/Kg	☼	01/31/18 15:09	02/05/18 15:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	220	N J	ug/Kg	☼	3.66	141-79-7	01/31/18 15:09	02/05/18 15:35	1
Unknown	7000	N	ug/Kg	☼	4.01		01/31/18 15:09	02/05/18 15:35	1
Unknown	250	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 15:35	1
n-Hexadecanoic acid	250	N J	ug/Kg	☼	10.21	57-10-3	01/31/18 15:09	02/05/18 15:35	1
Phosphonic acid, dioctadecyl ester	950	N J	ug/Kg	☼	12.56	19047-85-9	01/31/18 15:09	02/05/18 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		47 - 125	01/31/18 15:09	02/05/18 15:35	1
2-Fluorobiphenyl (Surr)	68		59 - 110	01/31/18 15:09	02/05/18 15:35	1
2-Fluorophenol (Surr)	66		54 - 102	01/31/18 15:09	02/05/18 15:35	1
Nitrobenzene-d5 (Surr)	62		44 - 120	01/31/18 15:09	02/05/18 15:35	1
Phenol-d5 (Surr)	68		51 - 104	01/31/18 15:09	02/05/18 15:35	1
Terphenyl-d14 (Surr)	86		59 - 98	01/31/18 15:09	02/05/18 15:35	1

Client Sample ID: B3FMP4 — **Lab Sample ID: 160-26494-7**
Date Collected: 01/22/18 10:00 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	50	U	360	50	ug/Kg	☼	01/31/18 15:09	02/05/18 16:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	330	N J	ug/Kg	☼	3.65	141-79-7	01/31/18 15:09	02/05/18 16:02	1
Unknown	14000	N	ug/Kg	☼	4.02		01/31/18 15:09	02/05/18 16:02	1
Unknown	340	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 16:02	1
Unknown	300	N	ug/Kg	☼	12.60		01/31/18 15:09	02/05/18 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		47 - 125	01/31/18 15:09	02/05/18 16:02	1
2-Fluorobiphenyl (Surr)	84		59 - 110	01/31/18 15:09	02/05/18 16:02	1
2-Fluorophenol (Surr)	83		54 - 102	01/31/18 15:09	02/05/18 16:02	1
Nitrobenzene-d5 (Surr)	79		44 - 120	01/31/18 15:09	02/05/18 16:02	1
Phenol-d5 (Surr)	84		51 - 104	01/31/18 15:09	02/05/18 16:02	1
Terphenyl-d14 (Surr)	96		59 - 98	01/31/18 15:09	02/05/18 16:02	1

Client Sample ID: B3FMR5 — **Lab Sample ID: 160-26494-8**
Date Collected: 01/22/18 11:40 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	360	49	ug/Kg	☼	01/31/18 15:09	02/05/18 16:30	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	300	N	ug/Kg	☼	2.70		01/31/18 15:09	02/05/18 16:30	1

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Client Sample ID: B3FMR5 — **Lab Sample ID: 160-26494-8**
Date Collected: 01/22/18 11:40 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.9**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	360	N J	ug/Kg	☼	3.65	141-79-7	01/31/18 15:09	02/05/18 16:30	1
Unknown	13000	N	ug/Kg	☼	4.02		01/31/18 15:09	02/05/18 16:30	1
Unknown	310	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 16:30	1
1-Eicosene	320	N J	ug/Kg	☼	12.58	3452-07-1	01/31/18 15:09	02/05/18 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		47 - 125	01/31/18 15:09	02/05/18 16:30	1
2-Fluorobiphenyl (Surr)	80		59 - 110	01/31/18 15:09	02/05/18 16:30	1
2-Fluorophenol (Surr)	78		54 - 102	01/31/18 15:09	02/05/18 16:30	1
Nitrobenzene-d5 (Surr)	74		44 - 120	01/31/18 15:09	02/05/18 16:30	1
Phenol-d5 (Surr)	80		51 - 104	01/31/18 15:09	02/05/18 16:30	1
Terphenyl-d14 (Surr)	88		59 - 98	01/31/18 15:09	02/05/18 16:30	1

Client Sample ID: B3FMR8 — **Lab Sample ID: 160-26494-9**
Date Collected: 01/22/18 11:58 — **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	340	48	ug/Kg	☼	01/31/18 15:09	02/05/18 16:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	310	N J	ug/Kg	☼	3.66	141-79-7	01/31/18 15:09	02/05/18 16:57	1
Unknown	14000	N	ug/Kg	☼	4.03		01/31/18 15:09	02/05/18 16:57	1
Unknown	300	N	ug/Kg	☼	4.55		01/31/18 15:09	02/05/18 16:57	1
3-Eicosene, (E)-	200	N J	ug/Kg	☼	12.62	74685-33-9	01/31/18 15:09	02/05/18 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		47 - 125	01/31/18 15:09	02/05/18 16:57	1
2-Fluorobiphenyl (Surr)	83		59 - 110	01/31/18 15:09	02/05/18 16:57	1
2-Fluorophenol (Surr)	83		54 - 102	01/31/18 15:09	02/05/18 16:57	1
Nitrobenzene-d5 (Surr)	78		44 - 120	01/31/18 15:09	02/05/18 16:57	1
Phenol-d5 (Surr)	85		51 - 104	01/31/18 15:09	02/05/18 16:57	1
Terphenyl-d14 (Surr)	94		59 - 98	01/31/18 15:09	02/05/18 16:57	1

Client Sample ID: B3FMT1 — **Lab Sample ID: 160-26494-10**
Date Collected: 01/22/18 12:05 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	340	48	ug/Kg	☼	01/31/18 15:09	02/05/18 17:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	320	N J	ug/Kg	☼	3.65	141-79-7	01/31/18 15:09	02/05/18 17:24	1
Unknown	14000	N	ug/Kg	☼	4.03		01/31/18 15:09	02/05/18 17:24	1
Unknown	310	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		47 - 125	01/31/18 15:09	02/05/18 17:24	1
2-Fluorobiphenyl (Surr)	83		59 - 110	01/31/18 15:09	02/05/18 17:24	1
2-Fluorophenol (Surr)	84		54 - 102	01/31/18 15:09	02/05/18 17:24	1
Nitrobenzene-d5 (Surr)	79		44 - 120	01/31/18 15:09	02/05/18 17:24	1
Phenol-d5 (Surr)	84		51 - 104	01/31/18 15:09	02/05/18 17:24	1
Terphenyl-d14 (Surr)	93		59 - 98	01/31/18 15:09	02/05/18 17:24	1

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Client Sample ID: B3FMT4 — **Lab Sample ID: 160-26494-11**
Date Collected: 01/22/18 12:07 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	01/31/18 15:09	02/05/18 17:52	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*270*	*N*	*ug/Kg*	☼	*2.70*		*01/31/18 15:09*	*02/05/18 17:52*	*1*
3-Penten-2-one, 4-methyl-	*340*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*01/31/18 15:09*	*02/05/18 17:52*	*1*
Unknown	*13000*	*N*	*ug/Kg*	☼	*4.02*		*01/31/18 15:09*	*02/05/18 17:52*	*1*
Unknown	*280*	*N*	*ug/Kg*	☼	*4.54*		*01/31/18 15:09*	*02/05/18 17:52*	*1*
Unknown	*200*	*N*	*ug/Kg*	☼	*12.63*		*01/31/18 15:09*	*02/05/18 17:52*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*47 - 125*	*01/31/18 15:09*	*02/05/18 17:52*	*1*
2-Fluorobiphenyl (Surr)	*82*		*59 - 110*	*01/31/18 15:09*	*02/05/18 17:52*	*1*
2-Fluorophenol (Surr)	*82*		*54 - 102*	*01/31/18 15:09*	*02/05/18 17:52*	*1*
Nitrobenzene-d5 (Surr)	*75*		*44 - 120*	*01/31/18 15:09*	*02/05/18 17:52*	*1*
Phenol-d5 (Surr)	*82*		*51 - 104*	*01/31/18 15:09*	*02/05/18 17:52*	*1*
Terphenyl-d14 (Surr)	*94*		*59 - 98*	*01/31/18 15:09*	*02/05/18 17:52*	*1*

Client Sample ID: B3FMT7 — **Lab Sample ID: 160-26494-12**
Date Collected: 01/22/18 12:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	01/31/18 15:09	02/05/18 18:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*370*	*N*	*ug/Kg*	☼	*2.70*		*01/31/18 15:09*	*02/05/18 18:19*	*1*
3-Penten-2-one, 4-methyl-	*410*	*N J*	*ug/Kg*	☼	*3.66*	*141-79-7*	*01/31/18 15:09*	*02/05/18 18:19*	*1*
Unknown	*14000*	*N*	*ug/Kg*	☼	*4.03*		*01/31/18 15:09*	*02/05/18 18:19*	*1*
Unknown	*300*	*N*	*ug/Kg*	☼	*4.55*		*01/31/18 15:09*	*02/05/18 18:19*	*1*
n-Hexadecanoic acid	*230*	*N J*	*ug/Kg*	☼	*10.20*	*57-10-3*	*01/31/18 15:09*	*02/05/18 18:19*	*1*
Unknown	*150*	*N*	*ug/Kg*	☼	*12.84*		*01/31/18 15:09*	*02/05/18 18:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*47 - 125*	*01/31/18 15:09*	*02/05/18 18:19*	*1*
2-Fluorobiphenyl (Surr)	*81*		*59 - 110*	*01/31/18 15:09*	*02/05/18 18:19*	*1*
2-Fluorophenol (Surr)	*78*		*54 - 102*	*01/31/18 15:09*	*02/05/18 18:19*	*1*
Nitrobenzene-d5 (Surr)	*75*		*44 - 120*	*01/31/18 15:09*	*02/05/18 18:19*	*1*
Phenol-d5 (Surr)	*81*		*51 - 104*	*01/31/18 15:09*	*02/05/18 18:19*	*1*
Terphenyl-d14 (Surr)	*91*		*59 - 98*	*01/31/18 15:09*	*02/05/18 18:19*	*1*

Client Sample ID: B3FMV0 — **Lab Sample ID: 160-26494-13**
Date Collected: 01/22/18 12:17 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	01/31/18 15:09	02/05/18 18:46	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*140*	*N*	*ug/Kg*	☼	*2.69*		*01/31/18 15:09*	*02/05/18 18:46*	*1*
3-Penten-2-one, 4-methyl-	*300*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*01/31/18 15:09*	*02/05/18 18:46*	*1*
Unknown	*13000*	*N*	*ug/Kg*	☼	*4.02*		*01/31/18 15:09*	*02/05/18 18:46*	*1*
Unknown	*340*	*N*	*ug/Kg*	☼	*4.54*		*01/31/18 15:09*	*02/05/18 18:46*	*1*
Unknown	*180*	*N*	*ug/Kg*	☼	*12.83*		*01/31/18 15:09*	*02/05/18 18:46*	*1*

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		47 - 125	01/31/18 15:09	02/05/18 18:46	1
2-Fluorobiphenyl (Surr)	81		59 - 110	01/31/18 15:09	02/05/18 18:46	1
2-Fluorophenol (Surr)	81		54 - 102	01/31/18 15:09	02/05/18 18:46	1
Nitrobenzene-d5 (Surr)	79		44 - 120	01/31/18 15:09	02/05/18 18:46	1
Phenol-d5 (Surr)	82		51 - 104	01/31/18 15:09	02/05/18 18:46	1
Terphenyl-d14 (Surr)	90		59 - 98	01/31/18 15:09	02/05/18 18:46	1

Client Sample ID: B3FMW1 — **Lab Sample ID: 160-26494-14**
Date Collected: 01/22/18 13:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	340	48	ug/Kg	☼	01/31/18 15:09	02/05/18 19:13	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	550	N	ug/Kg	☼	2.70		01/31/18 15:09	02/05/18 19:13	1
3-Penten-2-one, 4-methyl-	430	N J	ug/Kg	☼	3.65	141-79-7	01/31/18 15:09	02/05/18 19:13	1
Unknown	14000	N	ug/Kg	☼	4.02		01/31/18 15:09	02/05/18 19:13	1
Unknown	320	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 19:13	1
Unknown	220	N	ug/Kg	☼	12.83		01/31/18 15:09	02/05/18 19:13	1
Unknown	140	N	ug/Kg	☼	13.48		01/31/18 15:09	02/05/18 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		47 - 125	01/31/18 15:09	02/05/18 19:13	1
2-Fluorobiphenyl (Surr)	77		59 - 110	01/31/18 15:09	02/05/18 19:13	1
2-Fluorophenol (Surr)	78		54 - 102	01/31/18 15:09	02/05/18 19:13	1
Nitrobenzene-d5 (Surr)	75		44 - 120	01/31/18 15:09	02/05/18 19:13	1
Phenol-d5 (Surr)	80		51 - 104	01/31/18 15:09	02/05/18 19:13	1
Terphenyl-d14 (Surr)	83		59 - 98	01/31/18 15:09	02/05/18 19:13	1

Client Sample ID: B3FMW4 — **Lab Sample ID: 160-26494-15**
Date Collected: 01/22/18 13:25 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	50	U	360	50	ug/Kg	☼	01/31/18 15:09	02/05/18 19:40	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	280	N J	ug/Kg	☼	3.66	141-79-7	01/31/18 15:09	02/05/18 19:40	1
Unknown	13000	N	ug/Kg	☼	4.03		01/31/18 15:09	02/05/18 19:40	1
Unknown	310	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 19:40	1
Bromacil	210	N J	ug/Kg	☼	10.27	314-40-9	01/31/18 15:09	02/05/18 19:40	1
Unknown	150	N	ug/Kg	☼	12.84		01/31/18 15:09	02/05/18 19:40	1
Unknown	290	N	ug/Kg	☼	13.49		01/31/18 15:09	02/05/18 19:40	1
Unknown	180	N	ug/Kg	☼	16.25		01/31/18 15:09	02/05/18 19:40	1
Unknown	150	N	ug/Kg	☼	17.98		01/31/18 15:09	02/05/18 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		47 - 125	01/31/18 15:09	02/05/18 19:40	1
2-Fluorobiphenyl (Surr)	84		59 - 110	01/31/18 15:09	02/05/18 19:40	1
2-Fluorophenol (Surr)	82		54 - 102	01/31/18 15:09	02/05/18 19:40	1
Nitrobenzene-d5 (Surr)	78		44 - 120	01/31/18 15:09	02/05/18 19:40	1
Phenol-d5 (Surr)	84		51 - 104	01/31/18 15:09	02/05/18 19:40	1
Terphenyl-d14 (Surr)	93		59 - 98	01/31/18 15:09	02/05/18 19:40	1

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Client Sample ID: B3FMW7 — **Lab Sample ID: 160-26494-16**
Date Collected: 01/22/18 13:33 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	49	U	350	49	ug/Kg	☼	01/31/18 15:09	02/05/18 20:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*300*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*01/31/18 15:09*	*02/05/18 20:07*	*1*
Unknown	*13000*	*N*	*ug/Kg*	☼	*4.02*		*01/31/18 15:09*	*02/05/18 20:07*	*1*
Unknown	*290*	*N*	*ug/Kg*	☼	*4.54*		*01/31/18 15:09*	*02/05/18 20:07*	*1*
Bromacil	*160*	*N J*	*ug/Kg*	☼	*10.25*	*314-40-9*	*01/31/18 15:09*	*02/05/18 20:07*	*1*
Unknown	*270*	*N*	*ug/Kg*	☼	*12.83*		*01/31/18 15:09*	*02/05/18 20:07*	*1*
Unknown	*220*	*N*	*ug/Kg*	☼	*13.47*		*01/31/18 15:09*	*02/05/18 20:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*47 - 125*	*01/31/18 15:09*	*02/05/18 20:07*	*1*
2-Fluorobiphenyl (Surr)	*81*		*59 - 110*	*01/31/18 15:09*	*02/05/18 20:07*	*1*
2-Fluorophenol (Surr)	*81*		*54 - 102*	*01/31/18 15:09*	*02/05/18 20:07*	*1*
Nitrobenzene-d5 (Surr)	*79*		*44 - 120*	*01/31/18 15:09*	*02/05/18 20:07*	*1*
Phenol-d5 (Surr)	*83*		*51 - 104*	*01/31/18 15:09*	*02/05/18 20:07*	*1*
Terphenyl-d14 (Surr)	*91*		*59 - 98*	*01/31/18 15:09*	*02/05/18 20:07*	*1*

Client Sample ID: B3FMX0 — **Lab Sample ID: 160-26494-17**
Date Collected: 01/22/18 13:35 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	50	U	360	50	ug/Kg	☼	01/31/18 15:09	02/05/18 20:34	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*	*01/31/18 15:09*	*02/05/18 20:34*	*1*
Unknown	*13000*	*N*	*ug/Kg*	☼	*4.02*		*01/31/18 15:09*	*02/05/18 20:34*	*1*
Unknown	*270*	*N*	*ug/Kg*	☼	*4.54*		*01/31/18 15:09*	*02/05/18 20:34*	*1*
Unknown	*240*	*N*	*ug/Kg*	☼	*12.83*		*01/31/18 15:09*	*02/05/18 20:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*77*		*47 - 125*	*01/31/18 15:09*	*02/05/18 20:34*	*1*
2-Fluorobiphenyl (Surr)	*85*		*59 - 110*	*01/31/18 15:09*	*02/05/18 20:34*	*1*
2-Fluorophenol (Surr)	*84*		*54 - 102*	*01/31/18 15:09*	*02/05/18 20:34*	*1*
Nitrobenzene-d5 (Surr)	*81*		*44 - 120*	*01/31/18 15:09*	*02/05/18 20:34*	*1*
Phenol-d5 (Surr)	*85*		*51 - 104*	*01/31/18 15:09*	*02/05/18 20:34*	*1*
Terphenyl-d14 (Surr)	*91*		*59 - 98*	*01/31/18 15:09*	*02/05/18 20:34*	*1*

Client Sample ID: B3FMX3 — **Lab Sample ID: 160-26494-18**
Date Collected: 01/22/18 13:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	48	U	350	48	ug/Kg	☼	01/31/18 15:09	02/05/18 21:01	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
3-Penten-2-one, 4-methyl-	*300*	*N J*	*ug/Kg*	☼	*3.65*	*141-79-7*	*01/31/18 15:09*	*02/05/18 21:01*	*1*
Unknown	*13000*	*N*	*ug/Kg*	☼	*4.02*		*01/31/18 15:09*	*02/05/18 21:01*	*1*
Unknown	*290*	*N*	*ug/Kg*	☼	*4.54*		*01/31/18 15:09*	*02/05/18 21:01*	*1*
Unknown	*270*	*N*	*ug/Kg*	☼	*12.84*		*01/31/18 15:09*	*02/05/18 21:01*	*1*
Unknown	*150*	*N*	*ug/Kg*	☼	*13.48*		*01/31/18 15:09*	*02/05/18 21:01*	*1*

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	82		47 - 125	01/31/18 15:09	02/05/18 21:01	1
2-Fluorobiphenyl (Surr)	84		59 - 110	01/31/18 15:09	02/05/18 21:01	1
2-Fluorophenol (Surr)	82		54 - 102	01/31/18 15:09	02/05/18 21:01	1
Nitrobenzene-d5 (Surr)	79		44 - 120	01/31/18 15:09	02/05/18 21:01	1
Phenol-d5 (Surr)	83		51 - 104	01/31/18 15:09	02/05/18 21:01	1
Terphenyl-d14 (Surr)	95		59 - 98	01/31/18 15:09	02/05/18 21:01	1

Client Sample ID: B3FMX6 — **Lab Sample ID: 160-26494-19**
Date Collected: 01/22/18 13:48 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 96.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	47	U	340	47	ug/Kg	☼	01/31/18 15:09	02/05/18 21:27	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Penten-2-one, 4-methyl-	310	N J	ug/Kg	☼	3.65	141-79-7	01/31/18 15:09	02/05/18 21:27	1
Unknown	14000	N	ug/Kg	☼	4.02		01/31/18 15:09	02/05/18 21:27	1
Unknown	290	N	ug/Kg	☼	4.54		01/31/18 15:09	02/05/18 21:27	1
Unknown	270	N	ug/Kg	☼	12.84		01/31/18 15:09	02/05/18 21:27	1
Unknown	230	N	ug/Kg	☼	13.48		01/31/18 15:09	02/05/18 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		47 - 125	01/31/18 15:09	02/05/18 21:27	1
2-Fluorobiphenyl (Surr)	84		59 - 110	01/31/18 15:09	02/05/18 21:27	1
2-Fluorophenol (Surr)	84		54 - 102	01/31/18 15:09	02/05/18 21:27	1
Nitrobenzene-d5 (Surr)	81		44 - 120	01/31/18 15:09	02/05/18 21:27	1
Phenol-d5 (Surr)	85		51 - 104	01/31/18 15:09	02/05/18 21:27	1
Terphenyl-d14 (Surr)	92		59 - 98	01/31/18 15:09	02/05/18 21:27	1

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

Client Sample ID: B3FMM7 — **Lab Sample ID: 160-26494-1**
Date Collected: 01/22/18 09:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.0**

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 15:45	02/05/18 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	126		49 - 133	01/30/18 15:45	02/05/18 16:50	1

Client Sample ID: B3FMN0 — **Lab Sample ID: 160-26494-2**
Date Collected: 01/22/18 09:25 — **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 15:45	02/05/18 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	86		49 - 133	01/30/18 15:45	02/05/18 17:17	1

Client Sample ID: B3FMN3 — **Lab Sample ID: 160-26494-3**
Date Collected: 01/22/18 09:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.9**

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 15:45	02/05/18 18:39	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		49 - 133	01/30/18 15:45	02/05/18 18:39	1

Client Sample ID: B3FMN6 — **Lab Sample ID: 160-26494-4**
Date Collected: 01/22/18 09:55 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

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 15:45	02/05/18 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	86		49 - 133	01/30/18 15:45	02/05/18 19:06	1

Client Sample ID: B3FMN8 — **Lab Sample ID: 160-26494-5**
Date Collected: 01/22/18 09:15 — **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)	2.6	U	26	2.6	mg/Kg	☼	01/30/18 15:45	02/05/18 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	112		49 - 133	01/30/18 15:45	02/05/18 19:33	1

Client Sample ID: B3FMP1 — **Lab Sample ID: 160-26494-6**
Date Collected: 01/22/18 09:58 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 81.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Kerosene (C9-C16)	3.0	U	31	3.0	mg/Kg	☼	01/30/18 15:45	02/05/18 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	101		49 - 133	01/30/18 15:45	02/05/18 20:01	1

Client Sample ID: B3FMP4 — **Lab Sample ID: 160-26494-7**
Date Collected: 01/22/18 10:00 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

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 15:45	02/05/18 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	115		49 - 133	01/30/18 15:45	02/05/18 21:22	1

Client Sample ID: B3FMR5 — **Lab Sample ID: 160-26494-8**
Date Collected: 01/22/18 11:40 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.9**

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 15:45	02/05/18 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	118		49 - 133	01/30/18 15:45	02/05/18 21:50	1

Client Sample ID: B3FMR8 — **Lab Sample ID: 160-26494-9**
Date Collected: 01/22/18 11:58 — **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 15:45	02/05/18 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	92		49 - 133	01/30/18 15:45	02/05/18 22:17	1

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Client Sample ID: B3FMT1 — **Lab Sample ID: 160-26494-10**
Date Collected: 01/22/18 12:05 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.6**

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 15:45	02/05/18 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*113*		*49 - 133*	*01/30/18 15:45*	*02/05/18 22:44*	*1*

Client Sample ID: B3FMT4 — **Lab Sample ID: 160-26494-11**
Date Collected: 01/22/18 12:07 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.3**

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 15:45	02/05/18 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*83*		*49 - 133*	*01/30/18 15:45*	*02/05/18 23:11*	*1*

Client Sample ID: B3FMT7 — **Lab Sample ID: 160-26494-12**
Date Collected: 01/22/18 12:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.5**

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 15:45	02/05/18 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*115*		*49 - 133*	*01/30/18 15:45*	*02/05/18 23:39*	*1*

Client Sample ID: B3FMV0 — **Lab Sample ID: 160-26494-13**
Date Collected: 01/22/18 12:17 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.4**

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 15:45	02/06/18 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*49 - 133*	*01/30/18 15:45*	*02/06/18 00:06*	*1*

Client Sample ID: B3FMW1 — **Lab Sample ID: 160-26494-14**
Date Collected: 01/22/18 13:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.6**

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 15:45	02/06/18 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*49 - 133*	*01/30/18 15:45*	*02/06/18 00:33*	*1*

Client Sample ID: B3FMW4 — **Lab Sample ID: 160-26494-15**
Date Collected: 01/22/18 13:25 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.6**

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 15:45	02/06/18 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*49 - 133*	*01/30/18 15:45*	*02/06/18 01:00*	*1*

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Client Sample ID: B3FMW7 — **Lab Sample ID: 160-26494-16**
Date Collected: 01/22/18 13:33 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

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 15:45	02/06/18 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*121*		*49 - 133*	*01/30/18 15:45*	*02/06/18 01:28*	*1*

Client Sample ID: B3FMX0 — **Lab Sample ID: 160-26494-17**
Date Collected: 01/22/18 13:35 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

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 15:45	02/06/18 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*49 - 133*	*01/30/18 15:45*	*02/06/18 02:49*	*1*

Client Sample ID: B3FMX3 — **Lab Sample ID: 160-26494-18**
Date Collected: 01/22/18 13:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.2**

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 15:45	02/06/18 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*111*		*49 - 133*	*01/30/18 15:45*	*02/06/18 03:17*	*1*

Client Sample ID: B3FMX6 — **Lab Sample ID: 160-26494-19**
Date Collected: 01/22/18 13:48 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 96.1**

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 15:45	02/06/18 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*117*		*49 - 133*	*01/30/18 15:45*	*02/06/18 03:44*	*1*

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMM7 — **Lab Sample ID: 160-26494-1**
Date Collected: 01/22/18 09:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5830**	**D**	12.3	4.9	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Antimony	0.48	U D	1.2	0.48	mg/Kg	☼	01/30/18 12:48	02/02/18 21:07	5
Arsenic	**3.0**	**D**	2.5	0.98	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Barium	**76.5**	**D**	4.9	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Cadmium	**0.063**	**B D**	0.12	0.059	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Chromium	**9.3**	**D**	2.5	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Copper	**14.4**	**D**	2.5	0.98	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Lead	**3.9**	**D**	0.74	0.31	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Manganese	**322**	**D**	1.2	0.49	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Nickel	**10.0**	**D**	1.2	0.49	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Selenium	**0.88**	**B D**	1.2	0.79	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5
Uranium	**0.45**	**D**	0.25	0.098	mg/Kg	☼	01/30/18 11:11	02/16/18 22:18	5

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMN0 — **Lab Sample ID: 160-26494-2**
Date Collected: 01/22/18 09:25 — **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	5740	D	12.6	5.0	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:48	02/02/18 21:11	5
Arsenic	4.4	D	2.5	1.0	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Barium	75.3	D	5.0	1.3	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Cadmium	0.088	B D	0.13	0.060	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Chromium	6.7	D	2.5	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Copper	15.4	D	2.5	1.0	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Lead	4.9	D	0.75	0.31	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Manganese	375	D	1.3	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Nickel	10.1	D	1.3	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Selenium	0.96	B D	1.3	0.80	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Silver	0.19	U D	0.50	0.19	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5
Uranium	0.44	D	0.25	0.10	mg/Kg	☼	01/30/18 11:11	02/16/18 22:24	5

Client Sample ID: B3FMN3 — **Lab Sample ID: 160-26494-3**
Date Collected: 01/22/18 09:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6340	D	12.4	5.0	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Antimony	0.50	U D	1.3	0.50	mg/Kg	☼	01/30/18 12:48	02/02/18 21:15	5
Arsenic	5.3	D	2.5	0.99	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Barium	85.3	D	5.0	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Cadmium	0.080	B D	0.12	0.060	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Chromium	7.2	D	2.5	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Copper	16.1	D	2.5	0.99	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Lead	5.3	D	0.75	0.31	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Manganese	441	D	1.2	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Nickel	10.4	D	1.2	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Selenium	1.2	D	1.2	0.80	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Silver	0.19	U D	0.50	0.19	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5
Uranium	0.70	D	0.25	0.099	mg/Kg	☼	01/30/18 11:11	02/16/18 22:31	5

Client Sample ID: B3FMN6 — **Lab Sample ID: 160-26494-4**
Date Collected: 01/22/18 09:55 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6740	D	13.2	5.3	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	01/30/18 12:48	02/02/18 21:20	5
Arsenic	5.9	D	2.6	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Barium	94.6	D	5.3	1.3	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Cadmium	0.088	B D	0.13	0.064	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Chromium	8.3	D	2.6	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Copper	15.5	D	2.6	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Lead	6.1	D	0.79	0.33	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Manganese	430	D	1.3	0.53	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Nickel	11.1	D	1.3	0.53	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Selenium	1.2	B D	1.3	0.85	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Silver	0.20	U D	0.53	0.20	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5
Uranium	0.54	D	0.26	0.11	mg/Kg	☼	01/30/18 11:11	02/16/18 22:38	5

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMN8 — **Lab Sample ID: 160-26494-5**
Date Collected: 01/22/18 09:15 — **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	6800	D	11.1	4.4	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Antimony	0.48	U D	1.2	0.48	mg/Kg	☼	01/30/18 12:48	02/02/18 21:24	5
Arsenic	5.7	D	2.2	0.89	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Barium	94.6	D	4.4	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Cadmium	0.088	B D	0.11	0.053	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Chromium	8.2	D	2.2	1.0	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Copper	14.9	D	2.2	0.89	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Lead	6.3	D	0.67	0.28	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Manganese	453	D	1.1	0.44	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Nickel	12.3	D	1.1	0.44	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Selenium	1.3	D	1.1	0.71	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Silver	0.17	U D	0.44	0.17	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5
Uranium	0.54	D	0.22	0.089	mg/Kg	☼	01/30/18 11:11	02/16/18 22:45	5

Client Sample ID: B3FMP1 — **Lab Sample ID: 160-26494-6**
Date Collected: 01/22/18 09:58 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 81.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7890	D	13.2	5.3	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Antimony	0.55	U D	1.4	0.55	mg/Kg	☼	01/30/18 12:48	02/02/18 21:29	5
Arsenic	6.1	D	2.6	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Barium	103	D	5.3	1.3	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Cadmium	0.11	B D	0.13	0.064	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Chromium	9.8	D	2.6	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Copper	20.5	D	2.6	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Lead	6.4	D	0.79	0.33	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Manganese	516	D	1.3	0.53	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Nickel	12.9	D	1.3	0.53	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Selenium	1.5	D	1.3	0.85	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Silver	0.20	U D	0.53	0.20	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5
Uranium	0.62	D	0.26	0.11	mg/Kg	☼	01/30/18 11:11	02/16/18 22:51	5

Client Sample ID: B3FMP4 — **Lab Sample ID: 160-26494-7**
Date Collected: 01/22/18 10:00 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6180	D	12.4	5.0	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	01/30/18 12:48	02/02/18 21:47	5
Arsenic	5.7	D	2.5	0.99	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Barium	84.0	D	5.0	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Cadmium	0.084	B D	0.12	0.060	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Chromium	7.4	D	2.5	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Copper	17.2	D	2.5	0.99	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Lead	5.2	D	0.75	0.31	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Manganese	452	D	1.2	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Nickel	10.6	D	1.2	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Selenium	1.2	D	1.2	0.80	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Silver	0.19	U D	0.50	0.19	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5
Uranium	0.55	D	0.25	0.099	mg/Kg	☼	01/30/18 11:11	02/16/18 22:58	5

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMR5 — **Lab Sample ID: 160-26494-8**
Date Collected: 01/22/18 11:40 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5950	D	12.6	5.1	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	01/30/18 12:48	02/02/18 21:51	5
Arsenic	4.0	D	2.5	1.0	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Barium	72.3	D	5.1	1.3	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Cadmium	0.089	B D	0.13	0.061	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Chromium	8.2	D	2.5	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Copper	15.0	D	2.5	1.0	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Lead	5.4	D	0.76	0.32	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Manganese	374	D	1.3	0.51	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Nickel	9.7	D	1.3	0.51	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Selenium	1.3	D	1.3	0.81	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5
Uranium	0.44	D	0.25	0.10	mg/Kg	☼	01/30/18 11:11	02/16/18 23:05	5

Client Sample ID: B3FMR8 — **Lab Sample ID: 160-26494-9**
Date Collected: 01/22/18 11:58 — **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	5540	D	12.4	5.0	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	01/30/18 12:48	02/02/18 21:56	5
Arsenic	4.6	D	2.5	0.99	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Barium	72.0	D	5.0	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Cadmium	0.072	B D	0.12	0.060	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Chromium	6.8	D	2.5	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Copper	13.3	D	2.5	0.99	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Lead	4.8	D	0.74	0.31	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Manganese	393	D	1.2	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Nickel	9.3	D	1.2	0.50	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Selenium	1.2	D	1.2	0.79	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Silver	0.19	U D	0.50	0.19	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5
Uranium	0.51	D	0.25	0.099	mg/Kg	☼	01/30/18 11:11	02/16/18 23:11	5

Client Sample ID: B3FMT1 — **Lab Sample ID: 160-26494-10**
Date Collected: 01/22/18 12:05 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6070	D	12.1	4.9	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	01/30/18 12:48	02/02/18 22:00	5
Arsenic	5.4	D	2.4	0.97	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Barium	81.8	D	4.9	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Cadmium	0.088	B D	0.12	0.058	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Chromium	6.8	D	2.4	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Copper	15.8	D	2.4	0.97	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Lead	5.8	D	0.73	0.30	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Manganese	414	D	1.2	0.49	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Nickel	10.0	D	1.2	0.49	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Selenium	1.1	B D	1.2	0.78	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Silver	0.18	U D	0.49	0.18	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5
Uranium	0.47	D	0.24	0.097	mg/Kg	☼	01/30/18 11:11	02/16/18 23:38	5

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMT4 — **Lab Sample ID: 160-26494-11**
Date Collected: 01/22/18 12:07 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5720	D	13.0	5.2	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Antimony	0.46	U D	1.2	0.46	mg/Kg	☼	01/30/18 12:48	02/02/18 22:04	5
Arsenic	4.3	D	2.6	1.0	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Barium	70.4	D	5.2	1.3	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Cadmium	0.073	B D	0.13	0.063	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Chromium	8.0	D	2.6	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Copper	16.4	D	2.6	1.0	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Lead	4.7	D	0.78	0.33	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Manganese	370	D	1.3	0.52	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Nickel	9.7	D	1.3	0.52	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Selenium	1.3	D	1.3	0.83	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Silver	0.20	U D	0.52	0.20	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5
Uranium	0.57	D	0.26	0.10	mg/Kg	☼	01/30/18 11:11	02/16/18 23:45	5

Client Sample ID: B3FMT7 — **Lab Sample ID: 160-26494-12**
Date Collected: 01/22/18 12:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5730	D	11.8	4.7	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Antimony	0.47	U D	1.2	0.47	mg/Kg	☼	01/30/18 12:48	02/02/18 22:09	5
Arsenic	4.7	D	2.4	0.94	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Barium	76.2	D	4.7	1.2	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Cadmium	0.084	B D	0.12	0.056	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Chromium	6.9	D	2.4	1.1	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Copper	15.0	D	2.4	0.94	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Lead	4.9	D	0.71	0.29	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Manganese	384	D	1.2	0.47	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Nickel	9.6	D	1.2	0.47	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Selenium	0.97	B D	1.2	0.75	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5
Uranium	0.46	D	0.24	0.094	mg/Kg	☼	01/30/18 11:11	02/16/18 23:51	5

Client Sample ID: B3FMV0 — **Lab Sample ID: 160-26494-13**
Date Collected: 01/22/18 12:17 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5910	D	11.7	4.7	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:48	02/02/18 22:13	5
Arsenic	4.7	D	2.3	0.94	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Barium	77.8	D	4.7	1.2	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Cadmium	0.076	B D	0.12	0.056	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Chromium	8.1	D	2.3	1.1	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Copper	13.7	D	2.3	0.94	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Lead	4.4	D	0.70	0.29	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Manganese	385	D	1.2	0.47	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Nickel	9.7	D	1.2	0.47	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Selenium	1.1	B D	1.2	0.75	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5
Uranium	0.45	D	0.23	0.094	mg/Kg	☼	01/30/18 11:12	02/16/18 23:58	5

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMW1 — **Lab Sample ID: 160-26494-14**
Date Collected: 01/22/18 13:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5800	D	11.3	4.5	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Antimony	0.50	U D	1.2	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 21:04	5
Arsenic	4.6	D	2.3	0.91	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Barium	70.4	D	4.5	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Cadmium	0.090	B D	0.11	0.054	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Chromium	9.7	D	2.3	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Copper	13.3	D	2.3	0.91	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Lead	4.5	D	0.68	0.28	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Manganese	349	D N	1.1	0.45	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Nickel	9.9	D	1.1	0.45	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Selenium	1.0	B D	1.1	0.73	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Silver	0.17	U D	0.45	0.17	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5
Uranium	0.51	D	0.23	0.091	mg/Kg	☼	01/30/18 11:14	02/20/18 20:26	5

Client Sample ID: B3FMW4 — **Lab Sample ID: 160-26494-15**
Date Collected: 01/22/18 13:25 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6740	D	12.7	5.1	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Antimony	0.51	U D	1.3	0.51	mg/Kg	☼	01/30/18 12:49	02/09/18 21:21	5
Arsenic	7.4	D	2.5	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Barium	91.7	D	5.1	1.3	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Cadmium	0.12	B D	0.13	0.061	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Chromium	7.8	D	2.5	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Copper	15.2	D	2.5	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Lead	5.7	D	0.76	0.32	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Manganese	433	D N	1.3	0.51	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Nickel	10.1	D	1.3	0.51	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Selenium	0.86	B D	1.3	0.81	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Silver	0.19	U D	0.51	0.19	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5
Uranium	0.54	D	0.25	0.10	mg/Kg	☼	01/30/18 11:14	02/20/18 20:52	5

Client Sample ID: B3FMW7 — **Lab Sample ID: 160-26494-16**
Date Collected: 01/22/18 13:33 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6580	D	13.1	5.2	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Antimony	0.53	U D	1.3	0.53	mg/Kg	☼	01/30/18 12:49	02/09/18 21:26	5
Arsenic	8.4	D	2.6	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Barium	93.6	D	5.2	1.3	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Cadmium	0.11	B D	0.13	0.063	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Chromium	8.6	D	2.6	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Copper	14.5	D	2.6	1.0	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Lead	7.7	D	0.79	0.33	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Manganese	444	D N	1.3	0.52	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Nickel	10.2	D	1.3	0.52	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Selenium	0.97	B D	1.3	0.84	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Silver	0.20	U D	0.52	0.20	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5
Uranium	1.5	D	0.26	0.10	mg/Kg	☼	01/30/18 11:14	02/20/18 20:59	5

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B3FMX0 — **Lab Sample ID: 160-26494-17**
Date Collected: 01/22/18 13:35 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5850	D	12.1	4.8	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Antimony	0.50	U D	1.3	0.50	mg/Kg	☼	01/30/18 12:49	02/09/18 21:30	5
Arsenic	7.8	D	2.4	0.97	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Barium	74.3	D	4.8	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Cadmium	0.092	B D	0.12	0.058	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Chromium	8.3	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Copper	16.7	D	2.4	0.97	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Lead	6.2	D	0.73	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Manganese	444	D N	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Nickel	9.8	D	1.2	0.48	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Selenium	1.3	D	1.2	0.77	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Silver	0.18	U D	0.48	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5
Uranium	0.56	D	0.24	0.097	mg/Kg	☼	01/30/18 11:14	02/20/18 21:06	5

Client Sample ID: B3FMX3 — **Lab Sample ID: 160-26494-18**
Date Collected: 01/22/18 13:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4540	D	11.9	4.7	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Antimony	0.47	U D	1.2	0.47	mg/Kg	☼	01/30/18 12:49	02/09/18 21:35	5
Arsenic	4.8	D	2.4	0.95	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Barium	53.3	D	4.7	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Cadmium	0.057	U D	0.12	0.057	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Chromium	4.8	D	2.4	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Copper	13.9	D	2.4	0.95	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Lead	2.7	D	0.71	0.30	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Manganese	331	D N	1.2	0.47	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Nickel	8.2	D	1.2	0.47	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Selenium	1.1	B D	1.2	0.76	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5
Uranium	0.41	D	0.24	0.095	mg/Kg	☼	01/30/18 11:14	02/20/18 21:33	5

Client Sample ID: B3FMX6 — **Lab Sample ID: 160-26494-19**
Date Collected: 01/22/18 13:48 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 96.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4700	D	11.7	4.7	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Antimony	0.49	U D	1.2	0.49	mg/Kg	☼	01/30/18 12:49	02/09/18 21:53	5
Arsenic	5.0	D	2.3	0.93	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Barium	77.4	D	4.7	1.2	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Cadmium	0.074	B D	0.12	0.056	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Chromium	4.9	D	2.3	1.1	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Copper	13.7	D	2.3	0.93	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Lead	3.2	D	0.70	0.29	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Manganese	358	D N	1.2	0.47	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Nickel	9.3	D	1.2	0.47	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Selenium	1.1	B D	1.2	0.75	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Silver	0.18	U D	0.47	0.18	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5
Uranium	0.46	D	0.23	0.093	mg/Kg	☼	01/30/18 11:14	02/20/18 21:39	5

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3FMM7 — **Lab Sample ID: 160-26494-1**
Date Collected: 01/22/18 09:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:06	1

Client Sample ID: B3FMN0 — **Lab Sample ID: 160-26494-2**
Date Collected: 01/22/18 09:25 — **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	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:15	1

Client Sample ID: B3FMN3 — **Lab Sample ID: 160-26494-3**
Date Collected: 01/22/18 09:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:17	1

Client Sample ID: B3FMN6 — **Lab Sample ID: 160-26494-4**
Date Collected: 01/22/18 09:55 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:23	1

Client Sample ID: B3FMN8 — **Lab Sample ID: 160-26494-5**
Date Collected: 01/22/18 09:15 — **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	0.010	U	0.031	0.010	mg/Kg	☼	01/31/18 08:15	01/31/18 15:25	1

Client Sample ID: B3FMP1 — **Lab Sample ID: 160-26494-6**
Date Collected: 01/22/18 09:58 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 81.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	U	0.038	0.013	mg/Kg	☼	01/31/18 08:15	01/31/18 15:27	1

Client Sample ID: B3FMP4 — **Lab Sample ID: 160-26494-7**
Date Collected: 01/22/18 10:00 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:29	1

Client Sample ID: B3FMR5 — **Lab Sample ID: 160-26494-8**
Date Collected: 01/22/18 11:40 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:31	1

Client Sample ID: B3FMR8 — **Lab Sample ID: 160-26494-9**
Date Collected: 01/22/18 11:58 — **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	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:33	1

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3FMT1 — **Lab Sample ID: 160-26494-10**
Date Collected: 01/22/18 12:05 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:35	1

Client Sample ID: B3FMT4 — **Lab Sample ID: 160-26494-11**
Date Collected: 01/22/18 12:07 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:37	1

Client Sample ID: B3FMT7 — **Lab Sample ID: 160-26494-12**
Date Collected: 01/22/18 12:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:39	1

Client Sample ID: B3FMV0 — **Lab Sample ID: 160-26494-13**
Date Collected: 01/22/18 12:17 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:41	1

Client Sample ID: B3FMW1 — **Lab Sample ID: 160-26494-14**
Date Collected: 01/22/18 13:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:47	1

Client Sample ID: B3FMW4 — **Lab Sample ID: 160-26494-15**
Date Collected: 01/22/18 13:25 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:49	1

Client Sample ID: B3FMW7 — **Lab Sample ID: 160-26494-16**
Date Collected: 01/22/18 13:33 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:51	1

Client Sample ID: B3FMX0 — **Lab Sample ID: 160-26494-17**
Date Collected: 01/22/18 13:35 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.033	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:53	1

Client Sample ID: B3FMX3 — **Lab Sample ID: 160-26494-18**
Date Collected: 01/22/18 13:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.030	0.010	mg/Kg	☼	01/31/18 08:15	01/31/18 15:54	1

Method: 7471B - Mercury (CVAA)

Client Sample ID: B3FMX6 — **Lab Sample ID: 160-26494-19**
Date Collected: 01/22/18 13:48 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 96.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.032	0.011	mg/Kg	☼	01/31/18 08:15	01/31/18 15:56	1

General Chemistry

Client Sample ID: B3FMM7 — **Lab Sample ID: 160-26494-1**
Date Collected: 01/22/18 09:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.66**		0.53	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 19:33	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:07	1

Client Sample ID: B3FMN0 — **Lab Sample ID: 160-26494-2**
Date Collected: 01/22/18 09:25 — **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)	**0.84**		0.53	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 19:40	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:17	1

Client Sample ID: B3FMN3 — **Lab Sample ID: 160-26494-3**
Date Collected: 01/22/18 09:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 93.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.69**		0.53	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 19:43	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:20	1

Client Sample ID: B3FMN6 — **Lab Sample ID: 160-26494-4**
Date Collected: 01/22/18 09:55 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.77**		0.54	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 19:45	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:24	1

Client Sample ID: B3FMN8 — **Lab Sample ID: 160-26494-5**
Date Collected: 01/22/18 09:15 — **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)	**0.64**		0.52	0.23	mg/Kg	☼	02/13/18 17:30	02/13/18 19:48	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:27	1

Client Sample ID: B3FMP1 — **Lab Sample ID: 160-26494-6**
Date Collected: 01/22/18 09:58 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 81.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.76**		0.61	0.27	mg/Kg	☼	02/13/18 17:30	02/13/18 19:50	1
Cyanide, Total	0.14	U	0.61	0.14	mg/Kg	☼	02/05/18 16:00	02/05/18 19:37	1

Client Sample ID: B3FMP4 — **Lab Sample ID: 160-26494-7**
Date Collected: 01/22/18 10:00 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.71**		0.54	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 19:57	1

General Chemistry (Continued)

Client Sample ID: B3FMP4 — **Lab Sample ID: 160-26494-7**
Date Collected: 01/22/18 10:00 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:41	1

Client Sample ID: B3FMR5 — **Lab Sample ID: 160-26494-8**
Date Collected: 01/22/18 11:40 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.81**		0.54	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 19:59	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:44	1

Client Sample ID: B3FMR8 — **Lab Sample ID: 160-26494-9**
Date Collected: 01/22/18 11:58 — **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)	**0.81**		0.53	0.23	mg/Kg	☼	02/13/18 17:30	02/13/18 20:02	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:47	1

Client Sample ID: B3FMT1 — **Lab Sample ID: 160-26494-10**
Date Collected: 01/22/18 12:05 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.87**		0.52	0.23	mg/Kg	☼	02/13/18 17:30	02/13/18 20:04	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:51	1

Client Sample ID: B3FMT4 — **Lab Sample ID: 160-26494-11**
Date Collected: 01/22/18 12:07 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.69**		0.52	0.23	mg/Kg	☼	02/13/18 17:30	02/13/18 20:07	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 19:54	1

Client Sample ID: B3FMT7 — **Lab Sample ID: 160-26494-12**
Date Collected: 01/22/18 12:15 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.68**		0.53	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 20:11	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:01	1

Client Sample ID: B3FMV0 — **Lab Sample ID: 160-26494-13**
Date Collected: 01/22/18 12:17 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.77**		0.53	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 20:14	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:04	1

Client Sample ID: B3FMW1 — **Lab Sample ID: 160-26494-14**
Date Collected: 01/22/18 13:18 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 94.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.62**		0.52	0.23	mg/Kg	☼	02/13/18 17:30	02/13/18 20:16	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:08	1

Client Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

General Chemistry

Client Sample ID: B3FMW4 — **Lab Sample ID: 160-26494-15**
Date Collected: 01/22/18 13:25 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.67**		0.54	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 20:19	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:18	1

Client Sample ID: B3FMW7 — **Lab Sample ID: 160-26494-16**
Date Collected: 01/22/18 13:33 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.73**		0.54	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 20:26	1
Cyanide, Total	**0.43**	**B**	0.54	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:21	1

Client Sample ID: B3FMX0 — **Lab Sample ID: 160-26494-17**
Date Collected: 01/22/18 13:35 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 91.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.78**		0.54	0.24	mg/Kg	☼	02/13/18 17:30	02/13/18 20:28	1
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:25	1

Client Sample ID: B3FMX3 — **Lab Sample ID: 160-26494-18**
Date Collected: 01/22/18 13:45 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 95.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.63**		0.52	0.23	mg/Kg	☼	02/13/18 17:30	02/13/18 20:30	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:28	1

Client Sample ID: B3FMX6 — **Lab Sample ID: 160-26494-19**
Date Collected: 01/22/18 13:48 — **Matrix: Soil**
Date Received: 01/24/18 09:45 — **Percent Solids: 96.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.75**		0.52	0.23	mg/Kg	☼	02/13/18 17:30	02/13/18 20:33	1
Cyanide, Total	0.12	U	0.52	0.12	mg/Kg	☼	02/05/18 16:00	02/05/18 20:32	1

QC Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Lab Sample ID: MB 160-349001/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349620 — **Prep Batch: 349001**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyl phosphate	46	U	330	46	ug/Kg		01/31/18 15:09	02/05/18 11:28	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*676*	*N*	*ug/Kg*		*2.70*		*01/31/18 15:09*	*02/05/18 11:28*	*1*
3-Penten-2-one, 4-methyl-	*390*	*N J*	*ug/Kg*		*3.66*	*141-79-7*	*01/31/18 15:09*	*02/05/18 11:28*	*1*
Unknown	*13300*	*N*	*ug/Kg*		*4.03*		*01/31/18 15:09*	*02/05/18 11:28*	*1*
Unknown	*286*	*N*	*ug/Kg*		*4.55*		*01/31/18 15:09*	*02/05/18 11:28*	*1*
Unknown	*142*	*N*	*ug/Kg*		*6.05*		*01/31/18 15:09*	*02/05/18 11:28*	*1*
n-Hexadecanoic acid	*264*	*N J*	*ug/Kg*		*10.20*	*57-10-3*	*01/31/18 15:09*	*02/05/18 11:28*	*1*
1-Eicosanol	*418*	*N J*	*ug/Kg*		*12.52*	*629-96-9*	*01/31/18 15:09*	*02/05/18 11:28*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*47 - 125*	*01/31/18 15:09*	*02/05/18 11:28*	*1*
2-Fluorobiphenyl (Surr)	*82*		*59 - 110*	*01/31/18 15:09*	*02/05/18 11:28*	*1*
2-Fluorophenol (Surr)	*83*		*54 - 102*	*01/31/18 15:09*	*02/05/18 11:28*	*1*
Nitrobenzene-d5 (Surr)	*79*		*44 - 120*	*01/31/18 15:09*	*02/05/18 11:28*	*1*
Phenol-d5 (Surr)	*83*		*51 - 104*	*01/31/18 15:09*	*02/05/18 11:28*	*1*
Terphenyl-d14 (Surr)	*90*		*59 - 98*	*01/31/18 15:09*	*02/05/18 11:28*	*1*

Lab Sample ID: LCS 160-349001/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349620 — **Prep Batch: 349001**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	1670	1400		ug/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*81*		*47 - 125*
2-Fluorobiphenyl (Surr)	*79*		*59 - 110*
2-Fluorophenol (Surr)	*80*		*54 - 102*
Nitrobenzene-d5 (Surr)	*75*		*44 - 120*
Phenol-d5 (Surr)	*82*		*51 - 104*
Terphenyl-d14 (Surr)	*88*		*59 - 98*

Lab Sample ID: 160-26494-3 MS — **Client Sample ID: B3FMN3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349620 — **Prep Batch: 349001**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyl phosphate	48	U	1760	1550		ug/Kg	☼	88	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*84*		*47 - 125*
2-Fluorobiphenyl (Surr)	*82*		*59 - 110*
2-Fluorophenol (Surr)	*84*		*54 - 102*
Nitrobenzene-d5 (Surr)	*80*		*44 - 120*

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

Lab Sample ID: 160-26494-3 MS — **Client Sample ID: B3FMN3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349620 — **Prep Batch: 349001**

Surrogate	MS %Recovery	MS Qualifier	Limits
Phenol-d5 (Surr)	85		51 - 104
Terphenyl-d14 (Surr)	94		59 - 98

Lab Sample ID: 160-26494-3 MSD — **Client Sample ID: B3FMN3**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349620 — **Prep Batch: 349001**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tributyl phosphate	48	U	1770	1650		ug/Kg	☼	93	50 - 150	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	86		47 - 125
2-Fluorobiphenyl (Surr)	84		59 - 110
2-Fluorophenol (Surr)	85		54 - 102
Nitrobenzene-d5 (Surr)	81		44 - 120
Phenol-d5 (Surr)	84		51 - 104
Terphenyl-d14 (Surr)	95		59 - 98

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

Lab Sample ID: MB 160-348833/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349650 — **Prep Batch: 348833**

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 15:45	02/05/18 15:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		49 - 133	01/30/18 15:45	02/05/18 15:55	1

Lab Sample ID: LCS 160-348833/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349650 — **Prep Batch: 348833**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	61.6		mg/Kg		74	57 - 105

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	91		49 - 133

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

Lab Sample ID: 160-26494-2 MS — **Client Sample ID: B3FMN0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349650 — **Prep Batch: 348833**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2.6	U	89.2	64.3		mg/Kg	☼	72	34 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*88*		*49 - 133*

Lab Sample ID: 160-26494-2 MSD — **Client Sample ID: B3FMN0**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349650 — **Prep Batch: 348833**

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	89.1	80.8		mg/Kg	☼	91	34 - 150	23	30

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

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-348793/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351826 — **Prep Batch: 348793**

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 11:11	02/16/18 20:11	2
Arsenic	0.38	U D	0.94	0.38	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Barium	0.47	U D	1.9	0.47	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Cadmium	0.023	U D	0.047	0.023	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Chromium	0.42	U D	0.94	0.42	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Copper	0.38	U D	0.94	0.38	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Lead	0.12	U D	0.28	0.12	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Manganese	0.19	U D	0.47	0.19	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Nickel	0.19	U D	0.47	0.19	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Selenium	0.30	U D	0.47	0.30	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Silver	0.070	U D	0.19	0.070	mg/Kg		01/30/18 11:11	02/16/18 20:11	2
Uranium	0.038	U D	0.094	0.038	mg/Kg		01/30/18 11:11	02/16/18 20:11	2

Lab Sample ID: LCS 160-348793/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351826 — **Prep Batch: 348793**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	91.1	87.04	D	mg/Kg		96	80 - 120

QC Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Lab Sample ID: LCSSRM 160-348793/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351826 — **Prep Batch: 348793**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8090	6425	D	mg/Kg		79.4	39.6 - 160.7
Arsenic	100	99.16	D	mg/Kg		99.2	69.6 - 131.0
Barium	217	220.4	D	mg/Kg		101.6	73.7 - 128.1
Cadmium	83.7	82.73	D	mg/Kg		98.8	73.2 - 131.4
Chromium	107	107.8	D	mg/Kg		100.8	69.4 - 134.6
Copper	166	177.5	D	mg/Kg		106.9	75.3 - 128.3
Lead	88.4	89.49	D	mg/Kg		101.2	69.9 - 130.1
Manganese	311	316.9	D	mg/Kg		101.9	74.9 - 125.4
Nickel	49.8	55.69	D	mg/Kg		111.8	69.1 - 135.1
Selenium	87.7	88.85	D	mg/Kg		101.3	64.1 - 135.7
Silver	41.4	42.71	D	mg/Kg		103.2	65.9 - 133.8

Lab Sample ID: 160-26464-B-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351826 — **Prep Batch: 348793**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	4550	D	998	7777	X D	mg/Kg	☼	324	75 - 125
Arsenic	2.4	D	99.8	93.17	D	mg/Kg	☼	91	75 - 125
Barium	61.6	D	99.8	176.4	D	mg/Kg	☼	115	75 - 125
Cadmium	0.076	B D	99.8	91.71	D	mg/Kg	☼	92	75 - 125
Chromium	6.4	D	99.8	107.3	D	mg/Kg	☼	101	75 - 125
Copper	14.2	D	99.8	112.3	D	mg/Kg	☼	98	75 - 125
Lead	2.5	D	99.8	100.4	D	mg/Kg	☼	98	75 - 125
Manganese	417	D	99.8	478.3	X D	mg/Kg	☼	62	75 - 125
Nickel	8.2	D	99.8	111.2	D	mg/Kg	☼	103	75 - 125
Selenium	0.99	B D	49.9	43.85	D	mg/Kg	☼	86	75 - 125
Silver	0.18	U D	20.0	18.92	D	mg/Kg	☼	95	75 - 125
Uranium	0.37	D	99.8	100.9	D	mg/Kg	☼	101	75 - 125

Lab Sample ID: 160-26464-B-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351826 — **Prep Batch: 348793**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	4550	D	979	6633	X D	mg/Kg	☼	213	75 - 125	16	30
Arsenic	2.4	D	97.9	89.59	D	mg/Kg	☼	89	75 - 125	4	30
Barium	61.6	D	97.9	154.6	D	mg/Kg	☼	95	75 - 125	13	30
Cadmium	0.076	B D	98.0	88.26	D	mg/Kg	☼	90	75 - 125	4	30
Chromium	6.4	D	97.9	97.40	D	mg/Kg	☼	93	75 - 125	10	30

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

Lab Sample ID: 160-26464-B-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351826 — **Prep Batch: 348793**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	14.2	D	97.9	108.1	D	mg/Kg	☼	96	75 - 125	4	30
Lead	2.5	D	97.9	93.99	D	mg/Kg	☼	93	75 - 125	7	30
Manganese	417	D	97.9	462.1	X D	mg/Kg	☼	47	75 - 125	3	30
Nickel	8.2	D	97.9	102.0	D	mg/Kg	☼	96	75 - 125	9	30
Selenium	0.99	B D	49.0	43.05	D	mg/Kg	☼	86	75 - 125	2	30
Silver	0.18	U D	19.6	18.40	D	mg/Kg	☼	94	75 - 125	3	30
Uranium	0.37	D	97.9	95.34	D	mg/Kg	☼	97	75 - 125	6	30

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

QC Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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: 160-26494-14 MS — **Client Sample ID: B3FMW1**
Matrix: Soil — **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: 160-26494-14 MSD — **Client Sample ID: B3FMW1**
Matrix: Soil — **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

QC Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

Lab Sample ID: MB 160-348805/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349413 — **Prep Batch: 348805**

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 12:48	02/02/18 19:59	2

Lab Sample ID: LCS 160-348805/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349413 — **Prep Batch: 348805**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	43.7	40.46	D	mg/Kg		93	21 - 251

Lab Sample ID: 160-26464-B-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349413 — **Prep Batch: 348805**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.44	U D	47.5	44.22	D	mg/Kg	☼	93	75 - 125

Lab Sample ID: 160-26464-B-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349413 — **Prep Batch: 348805**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.44	U D	50.0	45.86	D	mg/Kg	☼	92	75 - 125	4	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

Lab Sample ID: 160-26494-14 MS — **Client Sample ID: B3FMW1**
Matrix: Soil — **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: 160-26494-14 MSD — **Client Sample ID: B3FMW1**
Matrix: Soil — **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

QC Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-348871/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349134 — **Prep Batch: 348871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	U	0.031	0.010	mg/Kg		01/31/18 08:15	01/31/18 15:02	1

Lab Sample ID: LCSSRM 160-348871/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349134 — **Prep Batch: 348871**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.3	9.28	D	mg/Kg		75.4	51.4 - 148.8

Lab Sample ID: 160-26494-1 MS — **Client Sample ID: B3FMM7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349134 — **Prep Batch: 348871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.011	U	0.844	0.839		mg/Kg	☼	99	80 - 120

Lab Sample ID: 160-26494-1 MSD — **Client Sample ID: B3FMM7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349134 — **Prep Batch: 348871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.011	U	0.868	0.849		mg/Kg	☼	98	80 - 120	1	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-350902/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351065 — **Prep Batch: 350902**

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		02/13/18 17:30	02/13/18 19:28	1

Lab Sample ID: LCS 160-350902/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 351065 — **Prep Batch: 350902**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.07		mg/Kg		101	90 - 110

Lab Sample ID: 160-26494-1 MS — **Client Sample ID: B3FMM7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 351065 — **Prep Batch: 350902**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.66		5.31	6.34		mg/Kg	☼	107	90 - 110

QC Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 160-26494-11 MS — **Client Sample ID: B3FMT4**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 351065 — **Prep Batch: 350902**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.69		5.23	6.12		mg/Kg	☼	104	90 - 110

Lab Sample ID: 160-26494-1 DU — **Client Sample ID: B3FMM7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 351065 — **Prep Batch: 350902**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.66		0.848		mg/Kg	☼	24	30

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-349657/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349895 — **Prep Batch: 349657**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11	U	0.50	0.11	mg/Kg		02/05/18 16:00	02/05/18 18:57	1

Lab Sample ID: HLCS 160-349657/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349895 — **Prep Batch: 349657**

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	4.80	4.64		mg/Kg		97	85 - 115

Lab Sample ID: LCS 160-349657/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349895 — **Prep Batch: 349657**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.27		mg/Kg		95	85 - 115

Lab Sample ID: 160-26494-1 MS — **Client Sample ID: B3FMM7**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349895 — **Prep Batch: 349657**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.12	U	2.55	2.48		mg/Kg	☼	97	60 - 130

Lab Sample ID: 160-26494-11 MS — **Client Sample ID: B3FMT4**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 349895 — **Prep Batch: 349657**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.12	U	2.51	2.38		mg/Kg	☼	94	60 - 130

QC Sample Results

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: 160-26494-1 DU
Matrix: Soil
Analysis Batch: 349895

Client Sample ID: B3FMM7
Prep Type: Total/NA
Prep Batch: 349657

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

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

GC/MS Semi VOA

Prep Batch: 349001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	3550C	
160-26494-2	B3FMN0	Total/NA	Soil	3550C	
160-26494-3	B3FMN3	Total/NA	Soil	3550C	
160-26494-4	B3FMN6	Total/NA	Soil	3550C	
160-26494-5	B3FMN8	Total/NA	Soil	3550C	
160-26494-6	B3FMP1	Total/NA	Soil	3550C	
160-26494-7	B3FMP4	Total/NA	Soil	3550C	
160-26494-8	B3FMR5	Total/NA	Soil	3550C	
160-26494-9	B3FMR8	Total/NA	Soil	3550C	
160-26494-10	B3FMT1	Total/NA	Soil	3550C	
160-26494-11	B3FMT4	Total/NA	Soil	3550C	
160-26494-12	B3FMT7	Total/NA	Soil	3550C	
160-26494-13	B3FMV0	Total/NA	Soil	3550C	
160-26494-14	B3FMW1	Total/NA	Soil	3550C	
160-26494-15	B3FMW4	Total/NA	Soil	3550C	
160-26494-16	B3FMW7	Total/NA	Soil	3550C	
160-26494-17	B3FMX0	Total/NA	Soil	3550C	
160-26494-18	B3FMX3	Total/NA	Soil	3550C	
160-26494-19	B3FMX6	Total/NA	Soil	3550C	
MB 160-349001/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-349001/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-26494-3 MS	B3FMN3	Total/NA	Soil	3550C	
160-26494-3 MSD	B3FMN3	Total/NA	Soil	3550C	

Analysis Batch: 349620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	8270D	349001
160-26494-2	B3FMN0	Total/NA	Soil	8270D	349001
160-26494-3	B3FMN3	Total/NA	Soil	8270D	349001
160-26494-4	B3FMN6	Total/NA	Soil	8270D	349001
160-26494-5	B3FMN8	Total/NA	Soil	8270D	349001
160-26494-6	B3FMP1	Total/NA	Soil	8270D	349001
160-26494-7	B3FMP4	Total/NA	Soil	8270D	349001
160-26494-8	B3FMR5	Total/NA	Soil	8270D	349001
160-26494-9	B3FMR8	Total/NA	Soil	8270D	349001
160-26494-10	B3FMT1	Total/NA	Soil	8270D	349001
160-26494-11	B3FMT4	Total/NA	Soil	8270D	349001
160-26494-12	B3FMT7	Total/NA	Soil	8270D	349001
160-26494-13	B3FMV0	Total/NA	Soil	8270D	349001
160-26494-14	B3FMW1	Total/NA	Soil	8270D	349001
160-26494-15	B3FMW4	Total/NA	Soil	8270D	349001
160-26494-16	B3FMW7	Total/NA	Soil	8270D	349001
160-26494-17	B3FMX0	Total/NA	Soil	8270D	349001
160-26494-18	B3FMX3	Total/NA	Soil	8270D	349001
160-26494-19	B3FMX6	Total/NA	Soil	8270D	349001
MB 160-349001/1-A	Method Blank	Total/NA	Solid	8270D	349001
LCS 160-349001/2-A	Lab Control Sample	Total/NA	Solid	8270D	349001
160-26494-3 MS	B3FMN3	Total/NA	Soil	8270D	349001
160-26494-3 MSD	B3FMN3	Total/NA	Soil	8270D	349001

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

GC Semi VOA

Prep Batch: 348833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	3550C	
160-26494-2	B3FMN0	Total/NA	Soil	3550C	
160-26494-3	B3FMN3	Total/NA	Soil	3550C	
160-26494-4	B3FMN6	Total/NA	Soil	3550C	
160-26494-5	B3FMN8	Total/NA	Soil	3550C	
160-26494-6	B3FMP1	Total/NA	Soil	3550C	
160-26494-7	B3FMP4	Total/NA	Soil	3550C	
160-26494-8	B3FMR5	Total/NA	Soil	3550C	
160-26494-9	B3FMR8	Total/NA	Soil	3550C	
160-26494-10	B3FMT1	Total/NA	Soil	3550C	
160-26494-11	B3FMT4	Total/NA	Soil	3550C	
160-26494-12	B3FMT7	Total/NA	Soil	3550C	
160-26494-13	B3FMV0	Total/NA	Soil	3550C	
160-26494-14	B3FMW1	Total/NA	Soil	3550C	
160-26494-15	B3FMW4	Total/NA	Soil	3550C	
160-26494-16	B3FMW7	Total/NA	Soil	3550C	
160-26494-17	B3FMX0	Total/NA	Soil	3550C	
160-26494-18	B3FMX3	Total/NA	Soil	3550C	
160-26494-19	B3FMX6	Total/NA	Soil	3550C	
MB 160-348833/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 160-348833/2-A	Lab Control Sample	Total/NA	Solid	3550C	
160-26494-2 MS	B3FMN0	Total/NA	Soil	3550C	
160-26494-2 MSD	B3FMN0	Total/NA	Soil	3550C	

Analysis Batch: 349650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	8015B	348833
160-26494-2	B3FMN0	Total/NA	Soil	8015B	348833
160-26494-3	B3FMN3	Total/NA	Soil	8015B	348833
160-26494-4	B3FMN6	Total/NA	Soil	8015B	348833
160-26494-5	B3FMN8	Total/NA	Soil	8015B	348833
160-26494-6	B3FMP1	Total/NA	Soil	8015B	348833
160-26494-7	B3FMP4	Total/NA	Soil	8015B	348833
160-26494-8	B3FMR5	Total/NA	Soil	8015B	348833
160-26494-9	B3FMR8	Total/NA	Soil	8015B	348833
160-26494-10	B3FMT1	Total/NA	Soil	8015B	348833
160-26494-11	B3FMT4	Total/NA	Soil	8015B	348833
160-26494-12	B3FMT7	Total/NA	Soil	8015B	348833
160-26494-13	B3FMV0	Total/NA	Soil	8015B	348833
160-26494-14	B3FMW1	Total/NA	Soil	8015B	348833
160-26494-15	B3FMW4	Total/NA	Soil	8015B	348833
160-26494-16	B3FMW7	Total/NA	Soil	8015B	348833
160-26494-17	B3FMX0	Total/NA	Soil	8015B	348833
160-26494-18	B3FMX3	Total/NA	Soil	8015B	348833
160-26494-19	B3FMX6	Total/NA	Soil	8015B	348833
MB 160-348833/1-A	Method Blank	Total/NA	Solid	8015B	348833
LCS 160-348833/2-A	Lab Control Sample	Total/NA	Solid	8015B	348833
160-26494-2 MS	B3FMN0	Total/NA	Soil	8015B	348833
160-26494-2 MSD	B3FMN0	Total/NA	Soil	8015B	348833

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Metals

Prep Batch: 348793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	3050B	
160-26494-2	B3FMN0	Total/NA	Soil	3050B	
160-26494-3	B3FMN3	Total/NA	Soil	3050B	
160-26494-4	B3FMN6	Total/NA	Soil	3050B	
160-26494-5	B3FMN8	Total/NA	Soil	3050B	
160-26494-6	B3FMP1	Total/NA	Soil	3050B	
160-26494-7	B3FMP4	Total/NA	Soil	3050B	
160-26494-8	B3FMR5	Total/NA	Soil	3050B	
160-26494-9	B3FMR8	Total/NA	Soil	3050B	
160-26494-10	B3FMT1	Total/NA	Soil	3050B	
160-26494-11	B3FMT4	Total/NA	Soil	3050B	
160-26494-12	B3FMT7	Total/NA	Soil	3050B	
160-26494-13	B3FMV0	Total/NA	Soil	3050B	
MB 160-348793/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 160-348793/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-348793/3-A	Lab Control Sample	Total/NA	Solid	3050B	
160-26464-B-1-B MS	Matrix Spike	Total/NA	Solid	3050B	
160-26464-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 348794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-14	B3FMW1	Total/NA	Soil	3050B	
160-26494-15	B3FMW4	Total/NA	Soil	3050B	
160-26494-16	B3FMW7	Total/NA	Soil	3050B	
160-26494-17	B3FMX0	Total/NA	Soil	3050B	
160-26494-18	B3FMX3	Total/NA	Soil	3050B	
160-26494-19	B3FMX6	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	
160-26494-14 MS	B3FMW1	Total/NA	Soil	3050B	
160-26494-14 MSD	B3FMW1	Total/NA	Soil	3050B	

Prep Batch: 348805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	3050B-Sb	
160-26494-2	B3FMN0	Total/NA	Soil	3050B-Sb	
160-26494-3	B3FMN3	Total/NA	Soil	3050B-Sb	
160-26494-4	B3FMN6	Total/NA	Soil	3050B-Sb	
160-26494-5	B3FMN8	Total/NA	Soil	3050B-Sb	
160-26494-6	B3FMP1	Total/NA	Soil	3050B-Sb	
160-26494-7	B3FMP4	Total/NA	Soil	3050B-Sb	
160-26494-8	B3FMR5	Total/NA	Soil	3050B-Sb	
160-26494-9	B3FMR8	Total/NA	Soil	3050B-Sb	
160-26494-10	B3FMT1	Total/NA	Soil	3050B-Sb	
160-26494-11	B3FMT4	Total/NA	Soil	3050B-Sb	
160-26494-12	B3FMT7	Total/NA	Soil	3050B-Sb	
160-26494-13	B3FMV0	Total/NA	Soil	3050B-Sb	
MB 160-348805/1-A	Method Blank	Total/NA	Solid	3050B-Sb	
LCS 160-348805/2-A	Lab Control Sample	Total/NA	Solid	3050B-Sb	
160-26464-B-1-E MS	Matrix Spike	Total/NA	Solid	3050B-Sb	

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Metals (Continued)

Prep Batch: 348805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26464-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B-Sb	

Prep Batch: 348806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-14	B3FMW1	Total/NA	Soil	3050B-Sb	
160-26494-15	B3FMW4	Total/NA	Soil	3050B-Sb	
160-26494-16	B3FMW7	Total/NA	Soil	3050B-Sb	
160-26494-17	B3FMX0	Total/NA	Soil	3050B-Sb	
160-26494-18	B3FMX3	Total/NA	Soil	3050B-Sb	
160-26494-19	B3FMX6	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	
160-26494-14 MS	B3FMW1	Total/NA	Soil	3050B-Sb	
160-26494-14 MSD	B3FMW1	Total/NA	Soil	3050B-Sb	

Prep Batch: 348871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	7471B	
160-26494-2	B3FMN0	Total/NA	Soil	7471B	
160-26494-3	B3FMN3	Total/NA	Soil	7471B	
160-26494-4	B3FMN6	Total/NA	Soil	7471B	
160-26494-5	B3FMN8	Total/NA	Soil	7471B	
160-26494-6	B3FMP1	Total/NA	Soil	7471B	
160-26494-7	B3FMP4	Total/NA	Soil	7471B	
160-26494-8	B3FMR5	Total/NA	Soil	7471B	
160-26494-9	B3FMR8	Total/NA	Soil	7471B	
160-26494-10	B3FMT1	Total/NA	Soil	7471B	
160-26494-11	B3FMT4	Total/NA	Soil	7471B	
160-26494-12	B3FMT7	Total/NA	Soil	7471B	
160-26494-13	B3FMV0	Total/NA	Soil	7471B	
160-26494-14	B3FMW1	Total/NA	Soil	7471B	
160-26494-15	B3FMW4	Total/NA	Soil	7471B	
160-26494-16	B3FMW7	Total/NA	Soil	7471B	
160-26494-17	B3FMX0	Total/NA	Soil	7471B	
160-26494-18	B3FMX3	Total/NA	Soil	7471B	
160-26494-19	B3FMX6	Total/NA	Soil	7471B	
MB 160-348871/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 160-348871/2-A	Lab Control Sample	Total/NA	Solid	7471B	
160-26494-1 MS	B3FMM7	Total/NA	Soil	7471B	
160-26494-1 MSD	B3FMM7	Total/NA	Soil	7471B	

Analysis Batch: 349134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	7471B	348871
160-26494-2	B3FMN0	Total/NA	Soil	7471B	348871
160-26494-3	B3FMN3	Total/NA	Soil	7471B	348871
160-26494-4	B3FMN6	Total/NA	Soil	7471B	348871
160-26494-5	B3FMN8	Total/NA	Soil	7471B	348871
160-26494-6	B3FMP1	Total/NA	Soil	7471B	348871
160-26494-7	B3FMP4	Total/NA	Soil	7471B	348871
160-26494-8	B3FMR5	Total/NA	Soil	7471B	348871

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Metals (Continued)

Analysis Batch: 349134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-9	B3FMR8	Total/NA	Soil	7471B	348871
160-26494-10	B3FMT1	Total/NA	Soil	7471B	348871
160-26494-11	B3FMT4	Total/NA	Soil	7471B	348871
160-26494-12	B3FMT7	Total/NA	Soil	7471B	348871
160-26494-13	B3FMV0	Total/NA	Soil	7471B	348871
160-26494-14	B3FMW1	Total/NA	Soil	7471B	348871
160-26494-15	B3FMW4	Total/NA	Soil	7471B	348871
160-26494-16	B3FMW7	Total/NA	Soil	7471B	348871
160-26494-17	B3FMX0	Total/NA	Soil	7471B	348871
160-26494-18	B3FMX3	Total/NA	Soil	7471B	348871
160-26494-19	B3FMX6	Total/NA	Soil	7471B	348871
MB 160-348871/1-A	Method Blank	Total/NA	Solid	7471B	348871
LCSSRM 160-348871/2-A	Lab Control Sample	Total/NA	Solid	7471B	348871
160-26494-1 MS	B3FMM7	Total/NA	Soil	7471B	348871
160-26494-1 MSD	B3FMM7	Total/NA	Soil	7471B	348871

Analysis Batch: 349413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	6020A	348805
160-26494-2	B3FMN0	Total/NA	Soil	6020A	348805
160-26494-3	B3FMN3	Total/NA	Soil	6020A	348805
160-26494-4	B3FMN6	Total/NA	Soil	6020A	348805
160-26494-5	B3FMN8	Total/NA	Soil	6020A	348805
160-26494-6	B3FMP1	Total/NA	Soil	6020A	348805
160-26494-7	B3FMP4	Total/NA	Soil	6020A	348805
160-26494-8	B3FMR5	Total/NA	Soil	6020A	348805
160-26494-9	B3FMR8	Total/NA	Soil	6020A	348805
160-26494-10	B3FMT1	Total/NA	Soil	6020A	348805
160-26494-11	B3FMT4	Total/NA	Soil	6020A	348805
160-26494-12	B3FMT7	Total/NA	Soil	6020A	348805
160-26494-13	B3FMV0	Total/NA	Soil	6020A	348805
MB 160-348805/1-A	Method Blank	Total/NA	Solid	6020A	348805
LCS 160-348805/2-A	Lab Control Sample	Total/NA	Solid	6020A	348805
160-26464-B-1-E MS	Matrix Spike	Total/NA	Solid	6020A	348805
160-26464-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	348805

Analysis Batch: 350531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-14	B3FMW1	Total/NA	Soil	6020A	348806
160-26494-15	B3FMW4	Total/NA	Soil	6020A	348806
160-26494-16	B3FMW7	Total/NA	Soil	6020A	348806
160-26494-17	B3FMX0	Total/NA	Soil	6020A	348806
160-26494-18	B3FMX3	Total/NA	Soil	6020A	348806
160-26494-19	B3FMX6	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
160-26494-14 MS	B3FMW1	Total/NA	Soil	6020A	348806
160-26494-14 MSD	B3FMW1	Total/NA	Soil	6020A	348806

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

Metals (Continued)

Analysis Batch: 351826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	6020A	348793
160-26494-2	B3FMN0	Total/NA	Soil	6020A	348793
160-26494-3	B3FMN3	Total/NA	Soil	6020A	348793
160-26494-4	B3FMN6	Total/NA	Soil	6020A	348793
160-26494-5	B3FMN8	Total/NA	Soil	6020A	348793
160-26494-6	B3FMP1	Total/NA	Soil	6020A	348793
160-26494-7	B3FMP4	Total/NA	Soil	6020A	348793
160-26494-8	B3FMR5	Total/NA	Soil	6020A	348793
160-26494-9	B3FMR8	Total/NA	Soil	6020A	348793
160-26494-10	B3FMT1	Total/NA	Soil	6020A	348793
160-26494-11	B3FMT4	Total/NA	Soil	6020A	348793
160-26494-12	B3FMT7	Total/NA	Soil	6020A	348793
160-26494-13	B3FMV0	Total/NA	Soil	6020A	348793
MB 160-348793/1-A	Method Blank	Total/NA	Solid	6020A	348793
LCS 160-348793/2-A	Lab Control Sample	Total/NA	Solid	6020A	348793
LCSSRM 160-348793/3-A	Lab Control Sample	Total/NA	Solid	6020A	348793
160-26464-B-1-B MS	Matrix Spike	Total/NA	Solid	6020A	348793
160-26464-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	348793

Analysis Batch: 352192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-14	B3FMW1	Total/NA	Soil	6020A	348794
160-26494-15	B3FMW4	Total/NA	Soil	6020A	348794
160-26494-16	B3FMW7	Total/NA	Soil	6020A	348794
160-26494-17	B3FMX0	Total/NA	Soil	6020A	348794
160-26494-18	B3FMX3	Total/NA	Soil	6020A	348794
160-26494-19	B3FMX6	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
160-26494-14 MS	B3FMW1	Total/NA	Soil	6020A	348794
160-26494-14 MSD	B3FMW1	Total/NA	Soil	6020A	348794

General Chemistry

Analysis Batch: 347823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	Moisture	
160-26494-2	B3FMN0	Total/NA	Soil	Moisture	
160-26494-3	B3FMN3	Total/NA	Soil	Moisture	
160-26494-4	B3FMN6	Total/NA	Soil	Moisture	
160-26494-5	B3FMN8	Total/NA	Soil	Moisture	
160-26494-6	B3FMP1	Total/NA	Soil	Moisture	
160-26494-7	B3FMP4	Total/NA	Soil	Moisture	
160-26494-8	B3FMR5	Total/NA	Soil	Moisture	
160-26494-9	B3FMR8	Total/NA	Soil	Moisture	
160-26494-10	B3FMT1	Total/NA	Soil	Moisture	
160-26494-11	B3FMT4	Total/NA	Soil	Moisture	
160-26494-12	B3FMT7	Total/NA	Soil	Moisture	
160-26494-13	B3FMV0	Total/NA	Soil	Moisture	

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

General Chemistry (Continued)

Analysis Batch: 347823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-14	B3FMW1	Total/NA	Soil	Moisture	
160-26494-15	B3FMW4	Total/NA	Soil	Moisture	
160-26494-16	B3FMW7	Total/NA	Soil	Moisture	
160-26494-17	B3FMX0	Total/NA	Soil	Moisture	
160-26494-18	B3FMX3	Total/NA	Soil	Moisture	
160-26494-19	B3FMX6	Total/NA	Soil	Moisture	
160-26494-1 DU	B3FMM7	Total/NA	Soil	Moisture	

Prep Batch: 349657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	9010C	
160-26494-2	B3FMN0	Total/NA	Soil	9010C	
160-26494-3	B3FMN3	Total/NA	Soil	9010C	
160-26494-4	B3FMN6	Total/NA	Soil	9010C	
160-26494-5	B3FMN8	Total/NA	Soil	9010C	
160-26494-6	B3FMP1	Total/NA	Soil	9010C	
160-26494-7	B3FMP4	Total/NA	Soil	9010C	
160-26494-8	B3FMR5	Total/NA	Soil	9010C	
160-26494-9	B3FMR8	Total/NA	Soil	9010C	
160-26494-10	B3FMT1	Total/NA	Soil	9010C	
160-26494-11	B3FMT4	Total/NA	Soil	9010C	
160-26494-12	B3FMT7	Total/NA	Soil	9010C	
160-26494-13	B3FMV0	Total/NA	Soil	9010C	
160-26494-14	B3FMW1	Total/NA	Soil	9010C	
160-26494-15	B3FMW4	Total/NA	Soil	9010C	
160-26494-16	B3FMW7	Total/NA	Soil	9010C	
160-26494-17	B3FMX0	Total/NA	Soil	9010C	
160-26494-18	B3FMX3	Total/NA	Soil	9010C	
160-26494-19	B3FMX6	Total/NA	Soil	9010C	
MB 160-349657/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 160-349657/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 160-349657/2-A	Lab Control Sample	Total/NA	Solid	9010C	
160-26494-1 MS	B3FMM7	Total/NA	Soil	9010C	
160-26494-11 MS	B3FMT4	Total/NA	Soil	9010C	
160-26494-1 DU	B3FMM7	Total/NA	Soil	9010C	

Analysis Batch: 349895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	9012B	349657
160-26494-2	B3FMN0	Total/NA	Soil	9012B	349657
160-26494-3	B3FMN3	Total/NA	Soil	9012B	349657
160-26494-4	B3FMN6	Total/NA	Soil	9012B	349657
160-26494-5	B3FMN8	Total/NA	Soil	9012B	349657
160-26494-6	B3FMP1	Total/NA	Soil	9012B	349657
160-26494-7	B3FMP4	Total/NA	Soil	9012B	349657
160-26494-8	B3FMR5	Total/NA	Soil	9012B	349657
160-26494-9	B3FMR8	Total/NA	Soil	9012B	349657
160-26494-10	B3FMT1	Total/NA	Soil	9012B	349657
160-26494-11	B3FMT4	Total/NA	Soil	9012B	349657
160-26494-12	B3FMT7	Total/NA	Soil	9012B	349657
160-26494-13	B3FMV0	Total/NA	Soil	9012B	349657

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

General Chemistry (Continued)

Analysis Batch: 349895 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-14	B3FMW1	Total/NA	Soil	9012B	349657
160-26494-15	B3FMW4	Total/NA	Soil	9012B	349657
160-26494-16	B3FMW7	Total/NA	Soil	9012B	349657
160-26494-17	B3FMX0	Total/NA	Soil	9012B	349657
160-26494-18	B3FMX3	Total/NA	Soil	9012B	349657
160-26494-19	B3FMX6	Total/NA	Soil	9012B	349657
MB 160-349657/1-A	Method Blank	Total/NA	Solid	9012B	349657
HLCS 160-349657/3-A	Lab Control Sample	Total/NA	Solid	9012B	349657
LCS 160-349657/2-A	Lab Control Sample	Total/NA	Solid	9012B	349657
160-26494-1 MS	B3FMM7	Total/NA	Soil	9012B	349657
160-26494-11 MS	B3FMT4	Total/NA	Soil	9012B	349657
160-26494-1 DU	B3FMM7	Total/NA	Soil	9012B	349657

Prep Batch: 350902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	DILeach_Prep	
160-26494-2	B3FMN0	Total/NA	Soil	DILeach_Prep	
160-26494-3	B3FMN3	Total/NA	Soil	DILeach_Prep	
160-26494-4	B3FMN6	Total/NA	Soil	DILeach_Prep	
160-26494-5	B3FMN8	Total/NA	Soil	DILeach_Prep	
160-26494-6	B3FMP1	Total/NA	Soil	DILeach_Prep	
160-26494-7	B3FMP4	Total/NA	Soil	DILeach_Prep	
160-26494-8	B3FMR5	Total/NA	Soil	DILeach_Prep	
160-26494-9	B3FMR8	Total/NA	Soil	DILeach_Prep	
160-26494-10	B3FMT1	Total/NA	Soil	DILeach_Prep	
160-26494-11	B3FMT4	Total/NA	Soil	DILeach_Prep	
160-26494-12	B3FMT7	Total/NA	Soil	DILeach_Prep	
160-26494-13	B3FMV0	Total/NA	Soil	DILeach_Prep	
160-26494-14	B3FMW1	Total/NA	Soil	DILeach_Prep	
160-26494-15	B3FMW4	Total/NA	Soil	DILeach_Prep	
160-26494-16	B3FMW7	Total/NA	Soil	DILeach_Prep	
160-26494-17	B3FMX0	Total/NA	Soil	DILeach_Prep	
160-26494-18	B3FMX3	Total/NA	Soil	DILeach_Prep	
160-26494-19	B3FMX6	Total/NA	Soil	DILeach_Prep	
MB 160-350902/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	
LCS 160-350902/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
160-26494-1 MS	B3FMM7	Total/NA	Soil	DILeach_Prep	
160-26494-11 MS	B3FMT4	Total/NA	Soil	DILeach_Prep	
160-26494-1 DU	B3FMM7	Total/NA	Soil	DILeach_Prep	

Analysis Batch: 351065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-1	B3FMM7	Total/NA	Soil	350.1	350902
160-26494-2	B3FMN0	Total/NA	Soil	350.1	350902
160-26494-3	B3FMN3	Total/NA	Soil	350.1	350902
160-26494-4	B3FMN6	Total/NA	Soil	350.1	350902
160-26494-5	B3FMN8	Total/NA	Soil	350.1	350902
160-26494-6	B3FMP1	Total/NA	Soil	350.1	350902
160-26494-7	B3FMP4	Total/NA	Soil	350.1	350902
160-26494-8	B3FMR5	Total/NA	Soil	350.1	350902
160-26494-9	B3FMR8	Total/NA	Soil	350.1	350902

QC Association Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

General Chemistry (Continued)

Analysis Batch: 351065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-26494-10	B3FMT1	Total/NA	Soil	350.1	350902
160-26494-11	B3FMT4	Total/NA	Soil	350.1	350902
160-26494-12	B3FMT7	Total/NA	Soil	350.1	350902
160-26494-13	B3FMV0	Total/NA	Soil	350.1	350902
160-26494-14	B3FMW1	Total/NA	Soil	350.1	350902
160-26494-15	B3FMW4	Total/NA	Soil	350.1	350902
160-26494-16	B3FMW7	Total/NA	Soil	350.1	350902
160-26494-17	B3FMX0	Total/NA	Soil	350.1	350902
160-26494-18	B3FMX3	Total/NA	Soil	350.1	350902
160-26494-19	B3FMX6	Total/NA	Soil	350.1	350902
MB 160-350902/1-A	Method Blank	Total/NA	Solid	350.1	350902
LCS 160-350902/2-A	Lab Control Sample	Total/NA	Solid	350.1	350902
160-26494-1 MS	B3FMM7	Total/NA	Soil	350.1	350902
160-26494-11 MS	B3FMT4	Total/NA	Soil	350.1	350902
160-26494-1 DU	B3FMM7	Total/NA	Soil	350.1	350902

Surrogate Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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)
160-26494-1	B3FMM7	74	76	77	73	79	88
160-26494-2	B3FMN0	82	81	84	79	86	95
160-26494-3	B3FMN3	90	82	82	80	84	95
160-26494-3 MS	B3FMN3	84	82	84	80	85	94
160-26494-3 MSD	B3FMN3	86	84	85	81	84	95
160-26494-4	B3FMN6	86	86	85	82	86	96
160-26494-5	B3FMN8	82	84	84	78	83	94
160-26494-6	B3FMP1	73	68	66	62	68	86
160-26494-7	B3FMP4	81	84	83	79	84	96
160-26494-8	B3FMR5	77	80	78	74	80	88
160-26494-9	B3FMR8	79	83	83	78	85	94
160-26494-10	B3FMT1	79	83	84	79	84	93
160-26494-11	B3FMT4	83	82	82	75	82	94
160-26494-12	B3FMT7	81	81	78	75	81	91
160-26494-13	B3FMV0	75	81	81	79	82	90
160-26494-14	B3FMW1	72	77	78	75	80	83
160-26494-15	B3FMW4	81	84	82	78	84	93
160-26494-16	B3FMW7	77	81	81	79	83	91
160-26494-17	B3FMX0	77	85	84	81	85	91
160-26494-18	B3FMX3	82	84	82	79	83	95
160-26494-19	B3FMX6	83	84	84	81	85	92

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 160-349001/2-A	Lab Control Sample	81	79	80	75	82	88
MB 160-349001/1-A	Method Blank	83	82	83	79	83	90

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)

Surrogate Summary

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

TestAmerica Job ID: 160-26494-1
SDG: SL2796

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

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

Lab Sample ID	Client Sample ID	OTPH1 (49-133)
160-26494-1	B3FMM7	126
160-26494-2	B3FMN0	86
160-26494-2 MS	B3FMN0	88
160-26494-2 MSD	B3FMN0	117
160-26494-3	B3FMN3	81
160-26494-4	B3FMN6	86
160-26494-5	B3FMN8	112
160-26494-6	B3FMP1	101
160-26494-7	B3FMP4	115
160-26494-8	B3FMR5	118
160-26494-9	B3FMR8	92
160-26494-10	B3FMT1	113
160-26494-11	B3FMT4	83
160-26494-12	B3FMT7	115
160-26494-13	B3FMV0	118
160-26494-14	B3FMW1	106
160-26494-15	B3FMW4	93
160-26494-16	B3FMW7	121
160-26494-17	B3FMX0	118
160-26494-18	B3FMX3	111
160-26494-19	B3FMX6	117

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

OTPH = o-Terphenyl

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

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

Lab Sample ID	Client Sample ID	OTPH1 (49-133)
LCS 160-348833/2-A	Lab Control Sample	91
MB 160-348833/1-A	Method Blank	89

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

OTPH = o-Terphenyl