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: 160-16835-1
TestAmerica Sample Delivery Group: SL2164
Client Project/Site: F15-011

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

Attn: Mr. Scot Fitzgerald

Authorized for release by:
4/25/2016 2:08:28 PM

Jayna Awalt, Project Manager II
(314)298-8566
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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.

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Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 160-16835-1
SDG Number: SL2164

Login Number: 16835
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
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			F15-011-533	PAGE 1 OF 1
COLLECTOR Curt Hoffman CHPRC SL2164	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8C	DATA TURNAROUND
SAMPLING LOCATION C9514, I-001	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites - Soil		SAF NO. F15-011	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO. GWS-459	FIELD LOGBOOK NO. HNF-N-645 3 - 62	ACTUAL SAMPLE DEPTH 4.1' - 6.6'	COA 302632	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7760671010 25		

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. NA

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B33XN2~~
SCP 4/13/16

PRESERVATION	Cool <=6C
HOLDING TIME	28 Days/48 Hours
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B33XP0	SOIL	APR 07 2016	0820	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Curt Hoffman CHPRC	DATE/TIME APR 07 2016 1030	RECEIVED BY/STORED IN L.D. Wall CHPRC	DATE/TIME APR 07 2016 1030
RELINQUISHED BY/REMOVED FROM L.D. Wall CHPRC	DATE/TIME APR 07 2016 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FEDEX	DATE/TIME	RECEIVED BY/STORED IN JILL CLARKE	DATE/TIME 4-8-16 0910
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A and will include 5 bottles for low level analysis.** The laboratory is to use one of the low level VOA bottles for moisture content determination.** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages. TRVL-16-029
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphate};

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/24/2015 FSR ID = FSR10641 TRVL NUM = TRVL-16-029 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F15-011-534	PAGE 1 OF 1
COLLECTOR Curt Hoffman CHPRC SL2164	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8C	DATA TURNAROUND
SAMPLING LOCATION C9514, I-002	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites - Soil		SAF NO. F15-011	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO. GWS-459	FIELD LOGBOOK NO. HNF-N-645 3 - 02	ACTUAL SAMPLE DEPTH 7.0' - 9.5'	COA 302632	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 776067101025		

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. NA

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B33XN3~~ SB 4/27/16

PRESERVATION	Cool <=6C
HOLDING TIME	28 Days/48 Hours
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B33XP1	SOIL	APR 07 2016	0850	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Curt Hoffman CHPRC	DATE/TIME APR 07 2016/030	RECEIVED BY/STORED IN L.D. Wall CHPRC	DATE/TIME APR 07 2016 1030
RELINQUISHED BY/REMOVED FROM L.D. Wall CHPRC	DATE/TIME APR 07 2016 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FEDEX	DATE/TIME	RECEIVED BY/STORED IN JILL CLARKE	DATE/TIME 4.8.16 0910
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A and will include 5 bottles for low level analysis.** The laboratory is to use one of the low level VOA bottles for moisture content determination.** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages. TRVL-16-029
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphate};

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/24/2015 **FSR ID = FSR10642** **TRVL NUM = TRVL-16-029** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F15-011-535	PAGE 1 OF 1
COLLECTOR Curt Hoffman CHPRC SL2164	COMPANY CONTACT TODAK, D	TELEPHONE NO. 376-6427	PROJECT COORDINATOR TODAK, D	PRICE CODE 8C	DATA TURNAROUND
SAMPLING LOCATION C9514, I-003	PROJECT DESIGNATION 200-DV-1 Operable Unit Characterization of Waste Sites - Soil		SAF NO. F15-011	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO. GWS-459	FIELD LOGBOOK NO. HNF-N-645 3 - 62	ACTUAL SAMPLE DEPTH 13.1' - 15.6'	COA 302632	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. 7760 6710 1025		

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. NA

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B33XN4~~
4/7/16

PRESERVATION	Cool <=6C
HOLDING TIME	28 Days/48 Hours
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	1
VOLUME	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B33XP2	SOIL	APR 0 7 2016	0935	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Curt Hoffman CHPRC	DATE/TIME APR 0 7 2016 1030	RECEIVED BY/STORED IN L.D. Wall CHPRC	DATE/TIME APR 0 7 2016 1030
RELINQUISHED BY/REMOVED FROM L.D. Wall CHPRC	DATE/TIME APR 0 7 2016 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM FEDEX	DATE/TIME	RECEIVED BY/STORED IN JILL CLARKE	DATE/TIME 4.8.10 0910
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A and will include 5 bottles for low level analysis.** The laboratory is to use one of the low level VOA bottles for moisture content determination.** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages. TRVL-16-029
(1) 300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: COMMON (Add-on) {Phosphate};

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/24/2015 **FSR ID = FSR10643** **TRVL NUM = TRVL-16-029** A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F15-011-537	PAGE 1 OF 1
COLLECTOR: Curt Hoffman CHPRC SL2164	COMPANY CONTACT: TODAK, D	TELEPHONE NO.: 376-6427	PROJECT COORDINATOR: TODAK, D	PRICE CODE: 8C	DATA TURNAROUND: 15 Days / 15 Days
SAMPLING LOCATION: C9514, I-001	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization of Waste Sites - Soil		SAF NO.: F15-011	AIR QUALITY: ☐	
ICE CHEST NO.: GWS-459	FIELD LOGBOOK NO.: HNF-N-645 3 - 62	ACTUAL SAMPLE DEPTH: 4.1' – 6.6'	COA: 302632	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 776067101025		

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. NA

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B33XN2~~ JB 4/7/16

PRESERVATION	Cool <=6C	Cool <=6C	None	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	6 Months	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	60mL	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	WTPH_KEROSENE: COMMON; WTPH_DIESEL: COMMON;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	9012_CYANIDE: COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B33XP4	SOIL	APR 07 2016	0820	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Curt Hoffman CHPRC	DATE/TIME: APR 07 2016 1030	RECEIVED BY/STORED IN: L.D. Wall CHPRC	DATE/TIME: APR 07 2016 1030
RELINQUISHED BY/REMOVED FROM: L.D. Wall CHPRC	DATE/TIME: APR 07 2016 1400	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:
RELINQUISHED BY/REMOVED FROM: FEDEX	DATE/TIME:	RECEIVED BY/STORED IN: JILL CLARKE	DATE/TIME: 4.8.16 0910
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:

SPECIAL INSTRUCTIONS
TRVL-16-029
(1) 8270_SVOA_GCMS: COMMON; 8270_SVOA_GCMS: CH 01; 8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};
(2) 6020_METALS_ICPMS: COMMON; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Magnesium, Nickel, Uranium};
7471_MERCURY_CV: COMMON (SOLIDS);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/24/2015 FSR ID = FSR10641 TRVL NUM = TRVL-16-029 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F15-011-539	PAGE 1 OF 1
COLLECTOR: Curt Hoffman CHPRC SL2164	COMPANY CONTACT: TODAK, D	TELEPHONE NO.: 376-6427	PROJECT COORDINATOR: TODAK, D	PRICE CODE: 8C	DATA TURNAROUND
SAMPLING LOCATION: C9514, I-002	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization of Waste Sites - Soil		SAF NO.: F15-011	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO.: GWS-459	FIELD LOGBOOK NO.: HNF-N-645 3 - 62	ACTUAL SAMPLE DEPTH: 7.0' - 9.5'	COA: 302632	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 776067101025		

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. NA

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B33XN3~~
JS 4/7/16

PRESERVATION	Cool <=6C	Cool <=6C	None	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	6 Months	14 Days
TYPE OF CONTAINER	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1
VOLUME	120mL	120mL	60mL	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	WTPH_KEROSENE: COMMON; WTPH_DIESEL: COMMON;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	9012_CYANIDE: COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME				
B33XP5	SOIL	APR 07 2016	0850	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Curt Hoffman CHPRC	DATE/TIME: APR 07 2016 1030	RECEIVED BY/STORED IN: L.D. Wall CHPRC	DATE/TIME: APR 07 2016 1030
RELINQUISHED BY/REMOVED FROM: L.D. Wall CHPRC	DATE/TIME: APR 07 2016 1400	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:
RELINQUISHED BY/REMOVED FROM: FEDEX	DATE/TIME:	RECEIVED BY/STORED IN: JILL CLARKE Jill Clarke 4.8.16 0910	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:

SPECIAL INSTRUCTIONS
TRVL-16-029
(1) 8270_SVOA_GCMS: COMMON; 8270_SVOA_GCMS: CH 01; 8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};
(2) 6020_METALS_ICPMS: COMMON; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Magnesium, Nickel, Uranium};
7471_MERCURY_CV: COMMON (SOLIDS);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/24/2015 FSR ID = FSR10642 TRVL NUM = TRVL-16-029 A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F15-011-541	PAGE 1 OF 1
COLLECTOR: Curt Hoffman CHPRC SL2164	COMPANY CONTACT: TODAK, D	TELEPHONE NO.: 376-6427	PROJECT COORDINATOR: TODAK, D	PRICE CODE: 8C	DATA TURNAROUND
SAMPLING LOCATION: C9514, I-003	PROJECT DESIGNATION: 200-DV-1 Operable Unit Characterization of Waste Sites - Soil		SAF NO.: F15-011	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO.: GWS-459	FIELD LOGBOOK NO.: HNF-N-645 3 - 62	ACTUAL SAMPLE DEPTH: 13.1' - 15.6'	COA: 302632	METHOD OF SHIPMENT: FEDERAL EXPRESS	ORIGINAL
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: 776067101025		

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. NA

SPECIAL HANDLING AND/OR STORAGE
~~RADIOACTIVE TIE TO: B33XN4~~ 4/8/16

PRESERVATION	Cool <=6C	Cool <=6C	Cool <=6C	None	Cool <=6C
HOLDING TIME	14/40 Days	14/40 Days	1 yr/1 yr	6 Months	28 Days
TYPE OF CONTAINER	aG	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	1	1
VOLUME	120mL	120mL	120mL	60mL	60mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	WTPH_KEROSENE: COMMON; WTPH_DIESEL: COMMON;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	350.1_AMMONIA: COMMON; 9012_CYANIDE: COMMON;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B33XP8	SOIL	APR 07 2016	0935	✓	✓	✓	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Curt Hoffman CHPRC	DATE/TIME: APR 07 2016 1030	RECEIVED BY/STORED IN: L.D. Wall CHPRC	DATE/TIME: APR 07 2016 1030
RELINQUISHED BY/REMOVED FROM: L.D. Wall CHPRC	DATE/TIME: APR 07 2016 1400	RECEIVED BY/STORED IN: FEDEX	DATE/TIME:
RELINQUISHED BY/REMOVED FROM: FEDEX	DATE/TIME:	RECEIVED BY/STORED IN: JILL CLARKE	DATE/TIME: 4/8/16 0910
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:
RELINQUISHED BY/REMOVED FROM	DATE/TIME:	RECEIVED BY/STORED IN	DATE/TIME:

SPECIAL INSTRUCTIONS
TRVL-16-029
(1) 8270_SVOA_GCMS: COMMON; 8270_SVOA_GCMS: CH 01; 8270_SVOA_GCMS: COMMON (Add-on) {Tributyl phosphate};
(2) 8082_PCB_GC: COMMON; 8082_PCB_GC: COMMON (Add-on) {Aroclor-1262, Aroclor-1268};
(3) 6020_METALS_ICPMS: COMMON; 6020_METALS_ICPMS: COMMON (Add-on) {Arsenic, Magnesium, Nickel, Uranium};
7471_MERCURY_CV: COMMON (SOLIDS);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

PRINTED ON 11/24/2015 FSR ID = FSR10643 TRVL NUM = TRVL-16-029 A-6003-618 (REV 2)

FedEx ® Tracking

776067101025

Ship date:
Thu 4/07/2016

RICHLAND, WA US

Delivered
Signed for by: J.CLARKE

Actual delivery:
Fri 4/08/2016 9:04 am

EARTH CITY, MO US

Travel History

Date/Time	Activity	Location
- 4/08/2016 - Friday		
9:04 am	Delivered	EARTH CITY, MO
6:41 am	On FedEx vehicle for delivery	EARTH CITY, MO
6:36 am	At local FedEx facility	EARTH CITY, MO
5:24 am	At destination sort facility	BERKELEY, MO
4:33 am	Departed FedEx location	MEMPHIS, TN
12:12 am	Arrived at FedEx location	MEMPHIS, TN
- 4/07/2016 - Thursday		
4:56 pm	Left FedEx origin facility	PASCO, WA
4:33 pm	Shipment information sent to FedEx	
3:22 pm	Picked up	PASCO, WA

Shipment Facts

Tracking number	776067101025	**Service**	FedEx Standard Overnight
Weight	78 lbs / 35.38 kgs	**Delivered To**	Shipping/Receiving
Total pieces	1	**Total shipment weight**	78 lbs / 35.38 kgs
Terms	Recipient	**Shipper reference**	GWS-459
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge

© FedEx 1995-2016

Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Analyzed for but not detected.
B	Analyte was found in the associated method blank as well as in the sample.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.
N	MS, MSD: Spike recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
B	Estimated result. Result is less than the RL, but greater than MDL
U	Analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
N	MS, MSD: Spike recovery is outside acceptance limits.
U	Analyzed for but not detected.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SL
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SL
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	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: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-16835-1	B33XP0	Soil	04/07/16 08:20	04/08/16 09:10
160-16835-2	B33XP1	Soil	04/07/16 08:50	04/08/16 09:10
160-16835-3	B33XP2	Soil	04/07/16 09:35	04/08/16 09:10
160-16835-4	B33XP4	Soil	04/07/16 08:20	04/08/16 09:10
160-16835-5	B33XP5	Soil	04/07/16 08:50	04/08/16 09:10
160-16835-6	B33XP8	Soil	04/07/16 09:35	04/08/16 09:10

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Client Sample ID: B33XP4
Date Collected: 04/07/16 08:20
Date Received: 04/08/16 09:10

Lab Sample ID: 160-16835-4
Matrix: Soil
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
1,2-Dichlorobenzene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
1,3-Dichlorobenzene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
1,4-Dichlorobenzene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2,4,5-Trichlorophenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2,4-Dichlorophenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2,4-Dimethylphenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2,4-Dinitrophenol	370	U	1800	370	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2,4-Dinitrotoluene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2,6-Dinitrotoluene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2-Chloronaphthalene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2-Chlorophenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2-Methylnaphthalene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2-Methylphenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2-Nitroaniline	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
2-Nitrophenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
3,3'-Dichlorobenzidine	370	U	1800	370	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
3-Nitroaniline	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
4,6-Dinitro-2-methylphenol	370	U	1800	370	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
4-Bromophenyl phenyl ether	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
4-Chloro-3-methylphenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
4-Chloroaniline	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
4-Chlorophenyl phenyl ether	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
4-Nitroaniline	370	U	1800	370	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
4-Nitrophenol	370	U	1800	370	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Acenaphthene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Acenaphthylene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Anthracene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Benzo[a]anthracene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Benzo[a]pyrene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Benzo[b]fluoranthene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Benzo[g,h,i]perylene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Benzo[k]fluoranthene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
bis(2 chloro-1-methylethyl) ether	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Bis(2-chloroethoxy)methane	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Bis(2-chloroethyl)ether	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Bis(2-ethylhexyl) phthalate	**91**	**J B**	370	51	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Butyl benzyl phthalate	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Carbazole	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Chrysene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Dibenz(a,h)anthracene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Dibenzofuran	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Diethyl phthalate	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Dimethyl phthalate	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Di-n-butyl phthalate	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Di-n-octyl phthalate	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Fluoranthene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Fluorene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Hexachlorobenzene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Client Sample ID: B33XP4
Date Collected: 04/07/16 08:20
Date Received: 04/08/16 09:10

Lab Sample ID: 160-16835-4
Matrix: Soil
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Hexachlorocyclopentadiene	370	U	1800	370	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Indeno[1,2,3-cd]pyrene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Isophorone	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Naphthalene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Nitrobenzene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
N-Nitrosodi-n-propylamine	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Pentachlorophenol	370	U	1800	370	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Phenanthrene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Phenol	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Pyrene	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Tributyl phosphate	52	U	370	52	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1
Hexachloroethane	38	U	370	38	ug/Kg	☼	04/13/16 12:07	04/15/16 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*47 - 125*	*04/13/16 12:07*	*04/15/16 22:48*	*1*
2-Fluorobiphenyl (Surr)	*79*		*59 - 110*	*04/13/16 12:07*	*04/15/16 22:48*	*1*
2-Fluorophenol (Surr)	*68*		*54 - 102*	*04/13/16 12:07*	*04/15/16 22:48*	*1*
Nitrobenzene-d5 (Surr)	*71*		*44 - 120*	*04/13/16 12:07*	*04/15/16 22:48*	*1*
Phenol-d5 (Surr)	*66*		*51 - 104*	*04/13/16 12:07*	*04/15/16 22:48*	*1*
Terphenyl-d14 (Surr)	*80*		*59 - 98*	*04/13/16 12:07*	*04/15/16 22:48*	*1*

Client Sample ID: B33XP5
Date Collected: 04/07/16 08:50
Date Received: 04/08/16 09:10

Lab Sample ID: 160-16835-5
Matrix: Soil
Percent Solids: 91.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
1,2-Dichlorobenzene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
1,3-Dichlorobenzene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
1,4-Dichlorobenzene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2,4,5-Trichlorophenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2,4-Dichlorophenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2,4-Dimethylphenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2,4-Dinitrophenol	360	U	1700	360	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2,4-Dinitrotoluene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2,6-Dinitrotoluene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2-Chloronaphthalene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2-Chlorophenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2-Methylnaphthalene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2-Methylphenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2-Nitroaniline	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
2-Nitrophenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
3,3'-Dichlorobenzidine	360	U	1700	360	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
3-Nitroaniline	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
4,6-Dinitro-2-methylphenol	360	U	1700	360	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
4-Bromophenyl phenyl ether	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
4-Chloro-3-methylphenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
4-Chloroaniline	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
4-Chlorophenyl phenyl ether	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
4-Nitroaniline	360	U	1700	360	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Client Sample ID: B33XP5
Date Collected: 04/07/16 08:50
Date Received: 04/08/16 09:10

Lab Sample ID: 160-16835-5
Matrix: Soil
Percent Solids: 91.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	360	U	1700	360	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Acenaphthene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Acenaphthylene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Anthracene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Benzo[a]anthracene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Benzo[a]pyrene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Benzo[b]fluoranthene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Benzo[g,h,i]perylene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Benzo[k]fluoranthene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
bis(2 chloro-1-methylethyl) ether	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Bis(2-chloroethoxy)methane	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Bis(2-chloroethyl)ether	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Bis(2-ethylhexyl) phthalate	**78**	**J B**	360	49	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Butyl benzyl phthalate	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Carbazole	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Chrysene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Dibenz(a,h)anthracene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Dibenzofuran	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Diethyl phthalate	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Dimethyl phthalate	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Di-n-butyl phthalate	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Di-n-octyl phthalate	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Fluoranthene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Fluorene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Hexachlorobenzene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Hexachlorobutadiene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Hexachlorocyclopentadiene	360	U	1700	360	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Indeno[1,2,3-cd]pyrene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Isophorone	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Naphthalene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Nitrobenzene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
N-Nitrosodi-n-propylamine	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Pentachlorophenol	360	U	1700	360	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Phenanthrene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Phenol	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Pyrene	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Tributyl phosphate	50	U	360	50	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1
Hexachloroethane	36	U	360	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*47 - 125*	*04/13/16 12:07*	*04/15/16 23:21*	*1*
2-Fluorobiphenyl (Surr)	*80*		*59 - 110*	*04/13/16 12:07*	*04/15/16 23:21*	*1*
2-Fluorophenol (Surr)	*72*		*54 - 102*	*04/13/16 12:07*	*04/15/16 23:21*	*1*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*	*04/13/16 12:07*	*04/15/16 23:21*	*1*
Phenol-d5 (Surr)	*71*		*51 - 104*	*04/13/16 12:07*	*04/15/16 23:21*	*1*
Terphenyl-d14 (Surr)	*80*		*59 - 98*	*04/13/16 12:07*	*04/15/16 23:21*	*1*

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Client Sample ID: B33XP8
Date Collected: 04/07/16 09:35
Date Received: 04/08/16 09:10

Lab Sample ID: 160-16835-6
Matrix: Soil
Percent Solids: 93.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
1,2-Dichlorobenzene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
1,3-Dichlorobenzene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
1,4-Dichlorobenzene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2,4,5-Trichlorophenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2,4-Dichlorophenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2,4-Dimethylphenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2,4-Dinitrophenol	350	U	1700	350	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2,4-Dinitrotoluene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2,6-Dinitrotoluene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2-Chloronaphthalene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2-Chlorophenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2-Methylnaphthalene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2-Methylphenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2-Nitroaniline	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
2-Nitrophenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
3,3'-Dichlorobenzidine	350	U	1700	350	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
3-Nitroaniline	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
4,6-Dinitro-2-methylphenol	350	U	1700	350	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
4-Bromophenyl phenyl ether	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
4-Chloro-3-methylphenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
4-Chloroaniline	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
4-Chlorophenyl phenyl ether	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
4-Nitroaniline	350	U	1700	350	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
4-Nitrophenol	350	U	1700	350	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Acenaphthene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Acenaphthylene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Anthracene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Benzo[a]anthracene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Benzo[a]pyrene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Benzo[b]fluoranthene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Benzo[g,h,i]perylene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Benzo[k]fluoranthene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
bis(2 chloro-1-methylethyl) ether	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Bis(2-chloroethoxy)methane	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Bis(2-chloroethyl)ether	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Bis(2-ethylhexyl) phthalate	**86**	**J B**	350	49	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Butyl benzyl phthalate	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Carbazole	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Chrysene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Dibenz(a,h)anthracene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Dibenzofuran	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Diethyl phthalate	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Dimethyl phthalate	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Di-n-butyl phthalate	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Di-n-octyl phthalate	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Fluoranthene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Fluorene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Hexachlorobenzene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Client Sample ID: B33XP8 — **Lab Sample ID: 160-16835-6**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Hexachlorocyclopentadiene	350	U	1700	350	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Indeno[1,2,3-cd]pyrene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Isophorone	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Naphthalene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Nitrobenzene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
N-Nitrosodi-n-propylamine	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Pentachlorophenol	350	U	1700	350	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Phenanthrene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Phenol	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Pyrene	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Tributyl phosphate	49	U	350	49	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1
Hexachloroethane	36	U	350	36	ug/Kg	☼	04/13/16 12:07	04/15/16 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*55*		*47 - 125*	*04/13/16 12:07*	*04/15/16 23:53*	*1*
2-Fluorobiphenyl (Surr)	*78*		*59 - 110*	*04/13/16 12:07*	*04/15/16 23:53*	*1*
2-Fluorophenol (Surr)	*69*		*54 - 102*	*04/13/16 12:07*	*04/15/16 23:53*	*1*
Nitrobenzene-d5 (Surr)	*73*		*44 - 120*	*04/13/16 12:07*	*04/15/16 23:53*	*1*
Phenol-d5 (Surr)	*67*		*51 - 104*	*04/13/16 12:07*	*04/15/16 23:53*	*1*
Terphenyl-d14 (Surr)	*80*		*59 - 98*	*04/13/16 12:07*	*04/15/16 23:53*	*1*

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

Client Sample ID: B33XP4 — **Lab Sample ID: 160-16835-4**
Date Collected: 04/07/16 08:20 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 87.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.38	U	28	0.38	mg/Kg	☼	04/15/16 08:45	04/18/16 20:05	1
Kerosene (C9-C16)	0.38	U	28	0.38	mg/Kg	☼	04/15/16 08:45	04/18/16 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*49 - 133*	*04/15/16 08:45*	*04/18/16 20:05*	*1*

Client Sample ID: B33XP5 — **Lab Sample ID: 160-16835-5**
Date Collected: 04/07/16 08:50 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 91.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.36	U	27	0.36	mg/Kg	☼	04/15/16 08:45	04/18/16 20:32	1
Kerosene (C9-C16)	0.36	U	27	0.36	mg/Kg	☼	04/15/16 08:45	04/18/16 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*49 - 133*	*04/15/16 08:45*	*04/18/16 20:32*	*1*

Client Sample ID: B33XP8 — **Lab Sample ID: 160-16835-6**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.36	U	27	0.36	mg/Kg	☼	04/15/16 08:45	04/18/16 20:58	1
Kerosene (C9-C16)	0.36	U	27	0.36	mg/Kg	☼	04/15/16 08:45	04/18/16 20:58	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		49 - 133	04/15/16 08:45	04/18/16 20:58	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: B33XP8 — **Lab Sample ID: 160-16835-6**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	10	U	35	10	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1221	10	U	35	10	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1232	10	U	35	10	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1242	10	U	35	10	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1248	10	U	35	10	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1254	8.6	U	35	8.6	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1260	8.6	U	35	8.6	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1262	8.6	U	35	8.6	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1
Aroclor 1268	8.6	U	35	8.6	ug/Kg	☼	04/15/16 09:52	04/18/16 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	83		23 - 146	04/15/16 09:52	04/18/16 18:03	1

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: B33XP0 — **Lab Sample ID: 160-16835-1**
Date Collected: 04/07/16 08:20 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.88	B	1.1	0.15	mg/Kg	☼	04/08/16 16:30	04/08/16 22:29	1
Nitrate as N	7.7		0.21	0.059	mg/Kg	☼	04/08/16 16:30	04/08/16 22:29	1
Nitrite as N	0.078	B N	0.21	0.059	mg/Kg	☼	04/08/16 16:30	04/08/16 22:29	1
Sulfate	4.6	B	5.4	0.54	mg/Kg	☼	04/08/16 16:30	04/08/16 22:29	1
Chloride	1.8	B	2.1	0.21	mg/Kg	☼	04/08/16 16:30	04/08/16 22:29	1
Phosphate	1.5	B	5.4	0.61	mg/Kg	☼	04/08/16 16:30	04/08/16 22:29	1

Client Sample ID: B33XP1 — **Lab Sample ID: 160-16835-2**
Date Collected: 04/07/16 08:50 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 81.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.78	B	1.2	0.18	mg/Kg	☼	04/08/16 16:30	04/08/16 22:56	1
Nitrate as N	7.5		0.25	0.067	mg/Kg	☼	04/08/16 16:30	04/08/16 22:56	1
Nitrite as N	0.068	U N	0.25	0.068	mg/Kg	☼	04/08/16 16:30	04/08/16 22:56	1
Sulfate	5.5	B	6.2	0.62	mg/Kg	☼	04/08/16 16:30	04/08/16 22:56	1
Chloride	3.4		2.5	0.25	mg/Kg	☼	04/08/16 16:30	04/08/16 22:56	1
Phosphate	1.6	B	6.2	0.70	mg/Kg	☼	04/08/16 16:30	04/08/16 22:56	1

Client Sample ID: B33XP2 — **Lab Sample ID: 160-16835-3**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.76	B	1.1	0.15	mg/Kg	☼	04/08/16 16:30	04/08/16 23:23	1
Nitrate as N	11		0.21	0.059	mg/Kg	☼	04/08/16 16:30	04/08/16 23:23	1
Nitrite as N	0.059	U N	0.21	0.059	mg/Kg	☼	04/08/16 16:30	04/08/16 23:23	1
Sulfate	19		5.4	0.54	mg/Kg	☼	04/08/16 16:30	04/08/16 23:23	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: B33XP2 — **Lab Sample ID: 160-16835-3**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.0		2.1	0.21	mg/Kg	☼	04/08/16 16:30	04/08/16 23:23	1
Phosphate	2.2	B	5.4	0.61	mg/Kg	☼	04/08/16 16:30	04/08/16 23:23	1

Method: 6020A - Metals (ICP/MS)

Client Sample ID: B33XP4 — **Lab Sample ID: 160-16835-4**
Date Collected: 04/07/16 08:20 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 87.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7130	D	26.1	8.7	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Arsenic	4.5	B D	5.2	1.4	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Barium	90.1	D	10.4	0.49	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Beryllium	0.43	B D	0.52	0.14	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Cadmium	0.11	B D	0.26	0.084	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Chromium	8.4	D	5.2	2.3	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Cobalt	9.2	D	1.0	0.22	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Copper	14.5	D	5.2	0.53	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Lead	5.6	D	1.6	0.52	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Magnesium	4890	D	261	19.8	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Molybdenum	0.65	U	2.6	0.65	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Nickel	11.0	D	2.6	0.56	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Selenium	1.4	B D	2.6	0.82	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Silver	0.20	B D	1.0	0.13	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10
Uranium	0.45	B D	0.52	0.10	mg/Kg	☼	04/14/16 10:39	04/20/16 00:42	10

Client Sample ID: B33XP5 — **Lab Sample ID: 160-16835-5**
Date Collected: 04/07/16 08:50 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 91.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10200	D	25.9	8.6	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Arsenic	6.0	D	5.2	1.3	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Barium	119	D	10.3	0.49	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Beryllium	0.49	B D	0.52	0.13	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Cadmium	0.12	B D	0.26	0.083	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Chromium	14.2	D	5.2	2.3	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Cobalt	12.5	D	1.0	0.22	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Copper	20.6	D	5.2	0.52	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Lead	7.2	D	1.6	0.52	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Magnesium	6990	D	259	19.7	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Molybdenum	0.64	U	2.6	0.64	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Nickel	16.4	D	2.6	0.55	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Selenium	1.9	B D	2.6	0.82	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Silver	0.20	B D	1.0	0.12	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10
Uranium	0.60	D	0.52	0.10	mg/Kg	☼	04/14/16 10:39	04/20/16 01:29	10

Client Sample ID: B33XP8 — **Lab Sample ID: 160-16835-6**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	8950	D	24.7	8.2	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Client Sample ID: B33XP8 — **Lab Sample ID: 160-16835-6**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5	D	4.9	1.3	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Barium	101	D	9.9	0.46	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Beryllium	0.41	B D	0.49	0.13	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Cadmium	0.10	B D	0.25	0.079	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Chromium	10.9	D	4.9	2.2	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Cobalt	10.5	D	0.99	0.21	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Copper	16.6	D	4.9	0.50	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Lead	6.8	D	1.5	0.49	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Magnesium	5980	D	247	18.7	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Molybdenum	0.73	B D	2.5	0.61	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Nickel	13.1	D	2.5	0.53	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Selenium	1.7	B D	2.5	0.78	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Silver	0.12	U	0.99	0.12	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10
Uranium	1.1	D	0.49	0.098	mg/Kg	☼	04/14/16 10:39	04/20/16 01:36	10

Method: 7471B - Mercury (CVAA)

Client Sample ID: B33XP4 — **Lab Sample ID: 160-16835-4**
Date Collected: 04/07/16 08:20 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 87.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	U	0.036	0.012	mg/Kg	☼	04/14/16 12:04	04/20/16 16:41	1

Client Sample ID: B33XP5 — **Lab Sample ID: 160-16835-5**
Date Collected: 04/07/16 08:50 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 91.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	U	0.034	0.011	mg/Kg	☼	04/14/16 12:04	04/20/16 16:49	1

Client Sample ID: B33XP8 — **Lab Sample ID: 160-16835-6**
Date Collected: 04/07/16 09:35 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 93.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.2	D	0.069	0.023	mg/Kg	☼	04/14/16 12:04	04/21/16 08:18	2

General Chemistry

Client Sample ID: B33XP4 — **Lab Sample ID: 160-16835-4**
Date Collected: 04/07/16 08:20 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 87.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.13	U	0.57	0.13	mg/Kg	☼	04/18/16 17:20	04/18/16 21:40	1

Client Sample ID: B33XP5 — **Lab Sample ID: 160-16835-5**
Date Collected: 04/07/16 08:50 — **Matrix: Soil**
Date Received: 04/08/16 09:10 — **Percent Solids: 91.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.12	U	0.54	0.12	mg/Kg	☼	04/18/16 17:20	04/18/16 21:43	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

General Chemistry

Client Sample ID: B33XP8
Date Collected: 04/07/16 09:35
Date Received: 04/08/16 09:10

Lab Sample ID: 160-16835-6
Matrix: Soil
Percent Solids: 93.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	**0.68**	**N**	0.54	0.099	mg/Kg	☼	04/23/16 17:30	04/23/16 19:25	1
Cyanide, Total	0.12	U	0.53	0.12	mg/Kg	☼	04/18/16 17:20	04/18/16 21:46	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: MB 160-245640/1-A
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
1,2-Dichlorobenzene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
1,3-Dichlorobenzene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
1,4-Dichlorobenzene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2,4,5-Trichlorophenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2,4-Dichlorophenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2,4-Dimethylphenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2,4-Dinitrophenol	330	U	1600	330	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2,4-Dinitrotoluene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2,6-Dinitrotoluene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2-Chloronaphthalene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2-Chlorophenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2-Methylnaphthalene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2-Methylphenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2-Nitroaniline	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
2-Nitrophenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
3,3'-Dichlorobenzidine	330	U	1600	330	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
3-Nitroaniline	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
4,6-Dinitro-2-methylphenol	330	U	1600	330	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
4-Bromophenyl phenyl ether	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
4-Chloro-3-methylphenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
4-Chloroaniline	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
4-Chlorophenyl phenyl ether	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
4-Nitroaniline	330	U	1600	330	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
4-Nitrophenol	330	U	1600	330	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Acenaphthene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Acenaphthylene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Anthracene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Benzo[a]anthracene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Benzo[a]pyrene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Benzo[b]fluoranthene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Benzo[g,h,i]perylene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Benzo[k]fluoranthene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
bis(2 chloro-1-methylethyl) ether	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Bis(2-chloroethoxy)methane	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Bis(2-chloroethyl)ether	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Bis(2-ethylhexyl) phthalate	94.1	J	330	45	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Butyl benzyl phthalate	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Carbazole	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Chrysene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Dibenz(a,h)anthracene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Dibenzofuran	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Diethyl phthalate	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Dimethyl phthalate	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Di-n-butyl phthalate	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Di-n-octyl phthalate	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Fluoranthene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Fluorene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: MB 160-245640/1-A
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Hexachlorobutadiene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Hexachlorocyclopentadiene	330	U	1600	330	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Indeno[1,2,3-cd]pyrene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Isophorone	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Naphthalene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Nitrobenzene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
N-Nitrosodi-n-propylamine	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Pentachlorophenol	330	U	1600	330	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Phenanthrene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Phenol	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Pyrene	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Tributyl phosphate	46	U	330	46	ug/Kg		04/13/16 12:07	04/15/16 19:02	1
Hexachloroethane	33	U	330	33	ug/Kg		04/13/16 12:07	04/15/16 19:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*47 - 125*	*04/13/16 12:07*	*04/15/16 19:02*	*1*
2-Fluorobiphenyl (Surr)	*77*		*59 - 110*	*04/13/16 12:07*	*04/15/16 19:02*	*1*
2-Fluorophenol (Surr)	*78*		*54 - 102*	*04/13/16 12:07*	*04/15/16 19:02*	*1*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*	*04/13/16 12:07*	*04/15/16 19:02*	*1*
Phenol-d5 (Surr)	*73*		*51 - 104*	*04/13/16 12:07*	*04/15/16 19:02*	*1*
Terphenyl-d14 (Surr)	*80*		*59 - 98*	*04/13/16 12:07*	*04/15/16 19:02*	*1*

Lab Sample ID: LCS 160-245640/2-A
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	6670	5000		ug/Kg		75	58 - 101
1,2-Dichlorobenzene	6670	4980		ug/Kg		75	57 - 99
1,3-Dichlorobenzene	6670	5050		ug/Kg		76	55 - 98
1,4-Dichlorobenzene	6670	5030		ug/Kg		75	56 - 98
2,4,5-Trichlorophenol	6670	5170		ug/Kg		78	56 - 109
2,4-Dichlorophenol	6670	5100		ug/Kg		76	57 - 99
2,4-Dimethylphenol	6670	4250		ug/Kg		64	53 - 97
2,4-Dinitrophenol	6670	2510		ug/Kg		38	10 - 89
2,4-Dinitrotoluene	6670	4880		ug/Kg		73	54 - 105
2,6-Dinitrotoluene	6670	5140		ug/Kg		77	55 - 105
2-Chloronaphthalene	6670	5500		ug/Kg		82	56 - 111
2-Chlorophenol	6670	4870		ug/Kg		73	56 - 99
2-Methylnaphthalene	6670	5210		ug/Kg		78	58 - 98
2-Methylphenol	6670	4350		ug/Kg		65	53 - 97
2-Nitroaniline	6670	4590		ug/Kg		69	55 - 108
2-Nitrophenol	6670	4950		ug/Kg		74	59 - 104
3,3'-Dichlorobenzidine	6670	4130		ug/Kg		62	42 - 104
3-Nitroaniline	6670	4450		ug/Kg		67	43 - 96
4,6-Dinitro-2-methylphenol	6670	4130		ug/Kg		62	19 - 102
4-Bromophenyl phenyl ether	6670	5610		ug/Kg		84	58 - 109

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: LCS 160-245640/2-A
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	6670	5060		ug/Kg		76	54 - 98
4-Chloroaniline	6670	3610		ug/Kg		54	41 - 83
4-Chlorophenyl phenyl ether	6670	5340		ug/Kg		80	55 - 105
4-Nitroaniline	6670	4700		ug/Kg		71	49 - 99
4-Nitrophenol	6670	4160		ug/Kg		62	48 - 106
Acenaphthene	6670	5180		ug/Kg		78	55 - 106
Acenaphthylene	6670	5130		ug/Kg		77	56 - 109
Anthracene	6670	5330		ug/Kg		80	56 - 103
Benzo[a]anthracene	6670	5200		ug/Kg		78	56 - 107
Benzo[a]pyrene	6670	6520		ug/Kg		98	57 - 109
Benzo[b]fluoranthene	6670	6740		ug/Kg		101	68 - 109
Benzo[g,h,i]perylene	6670	7480		ug/Kg		112	51 - 126
Benzo[k]fluoranthene	6670	6810		ug/Kg		102	56 - 106
bis(2 chloro-1-methylethyl) ether	6670	4270		ug/Kg		64	49 - 94
Bis(2-chloroethoxy)methane	6670	4910		ug/Kg		74	56 - 99
Bis(2-chloroethyl)ether	6670	4740		ug/Kg		71	53 - 99
Bis(2-ethylhexyl) phthalate	6670	5730		ug/Kg		86	59 - 113
Butyl benzyl phthalate	6670	5610		ug/Kg		84	60 - 112
Carbazole	6670	5020		ug/Kg		75	53 - 98
Chrysene	6670	5280		ug/Kg		79	54 - 107
Dibenz(a,h)anthracene	6670	6720		ug/Kg		101	52 - 126
Dibenzofuran	6670	5110		ug/Kg		77	55 - 103
Diethyl phthalate	6670	4920		ug/Kg		74	54 - 101
Dimethyl phthalate	6670	5010		ug/Kg		75	55 - 105
Di-n-butyl phthalate	6670	4640		ug/Kg		70	57 - 102
Di-n-octyl phthalate	6670	5210		ug/Kg		78	56 - 117
Fluoranthene	6670	4720		ug/Kg		71	54 - 100
Fluorene	6670	5230		ug/Kg		78	57 - 106
Hexachlorobenzene	6670	5370		ug/Kg		81	57 - 109
Hexachlorobutadiene	6670	5250		ug/Kg		79	59 - 106
Hexachlorocyclopentadiene	6670	4830		ug/Kg		72	44 - 140
Indeno[1,2,3-cd]pyrene	6670	6650		ug/Kg		100	52 - 132
Isophorone	6670	4410		ug/Kg		66	55 - 96
Naphthalene	6670	4970		ug/Kg		75	57 - 98
Nitrobenzene	6670	5020		ug/Kg		75	58 - 102
N-Nitrosodi-n-propylamine	6670	4320		ug/Kg		65	54 - 98
Pentachlorophenol	6670	3610		ug/Kg		54	35 - 107
Phenanthrene	6670	5280		ug/Kg		79	57 - 103
Phenol	6670	4250		ug/Kg		64	50 - 96
Pyrene	6670	5460		ug/Kg		82	59 - 109
Hexachloroethane	6670	4810		ug/Kg		72	56 - 102

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*81*		*47 - 125*
2-Fluorobiphenyl (Surr)	*82*		*59 - 110*
2-Fluorophenol (Surr)	*70*		*54 - 102*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*
Phenol-d5 (Surr)	*71*		*51 - 104*

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: LCS 160-245640/2-A
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245640

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*77*		*59 - 98*

Lab Sample ID: 160-16819-A-1-B MS
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 245640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	35	U	6940	5200		ug/Kg	☼	75	52 - 103
1,2-Dichlorobenzene	35	U	6940	5240		ug/Kg	☼	75	50 - 98
1,3-Dichlorobenzene	35	U	6940	5230		ug/Kg	☼	75	49 - 96
1,4-Dichlorobenzene	35	U	6940	5190		ug/Kg	☼	75	50 - 96
2,4,5-Trichlorophenol	35	U	6940	5830		ug/Kg	☼	84	41 - 116
2,4-Dichlorophenol	35	U	6940	4890		ug/Kg	☼	71	47 - 104
2,4-Dimethylphenol	35	U	6940	4790		ug/Kg	☼	69	45 - 105
2,4-Dinitrophenol	340	U	6940	992	J	ug/Kg	☼	14	10 - 100
2,4-Dinitrotoluene	35	U	6940	5370		ug/Kg	☼	77	42 - 113
2,6-Dinitrotoluene	35	U	6940	5520		ug/Kg	☼	80	46 - 109
2-Chloronaphthalene	35	U	6940	6040		ug/Kg	☼	87	52 - 108
2-Chlorophenol	35	U	6940	5030		ug/Kg	☼	73	48 - 102
2-Methylnaphthalene	35	U	6940	4960		ug/Kg	☼	72	55 - 97
2-Methylphenol	35	U	6940	4900		ug/Kg	☼	71	46 - 98
2-Nitroaniline	35	U	6940	5370		ug/Kg	☼	77	45 - 111
2-Nitrophenol	35	U	6940	5180		ug/Kg	☼	75	38 - 115
3,3'-Dichlorobenzidine	340	U	6940	4520		ug/Kg	☼	65	23 - 102
3-Nitroaniline	35	U	6940	4680		ug/Kg	☼	68	32 - 95
4,6-Dinitro-2-methylphenol	340	U	6940	2600		ug/Kg	☼	37	15 - 118
4-Bromophenyl phenyl ether	35	U	6940	6130		ug/Kg	☼	88	53 - 110
4-Chloro-3-methylphenol	35	U	6940	4700		ug/Kg	☼	68	36 - 111
4-Chloroaniline	35	U	6940	3790		ug/Kg	☼	55	32 - 79
4-Chlorophenyl phenyl ether	35	U	6940	6060		ug/Kg	☼	87	51 - 103
4-Nitroaniline	340	U	6940	5310		ug/Kg	☼	76	36 - 102
4-Nitrophenol	340	U	6940	4470		ug/Kg	☼	64	40 - 113
Acenaphthene	35	U	6940	5610		ug/Kg	☼	81	53 - 105
Acenaphthylene	35	U	6940	5770		ug/Kg	☼	83	55 - 107
Anthracene	35	U	6940	6250		ug/Kg	☼	90	55 - 103
Benzo[a]anthracene	35	U	6940	5560		ug/Kg	☼	80	48 - 112
Benzo[a]pyrene	35	U	6940	6430		ug/Kg	☼	93	46 - 117
Benzo[b]fluoranthene	35	U	6940	5810		ug/Kg	☼	84	45 - 125
Benzo[g,h,i]perylene	35	U	6940	7740		ug/Kg	☼	112	24 - 134
Benzo[k]fluoranthene	35	U	6940	5880		ug/Kg	☼	85	43 - 114
bis(2 chloro-1-methylethyl) ether	35	U	6940	4730		ug/Kg	☼	68	38 - 98
Bis(2-chloroethoxy)methane	35	U	6940	5070		ug/Kg	☼	73	49 - 100
Bis(2-chloroethyl)ether	35	U	6940	4870		ug/Kg	☼	70	49 - 100
Bis(2-ethylhexyl) phthalate	120	J B	6940	5710		ug/Kg	☼	81	50 - 113
Butyl benzyl phthalate	35	U	6940	5660		ug/Kg	☼	82	54 - 112
Carbazole	35	U	6940	5820		ug/Kg	☼	84	47 - 102
Chrysene	35	U	6940	5540		ug/Kg	☼	80	45 - 115
Dibenz(a,h)anthracene	35	U	6940	6960		ug/Kg	☼	100	30 - 134

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: 160-16819-A-1-B MS
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 245640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenzofuran	35	U	6940	5670		ug/Kg	☼	82	50 - 102
Diethyl phthalate	35	U	6940	5470		ug/Kg	☼	79	46 - 107
Dimethyl phthalate	35	U	6940	5600		ug/Kg	☼	81	46 - 111
Di-n-butyl phthalate	35	U	6940	5330		ug/Kg	☼	77	49 - 107
Di-n-octyl phthalate	35	U	6940	5630		ug/Kg	☼	81	35 - 125
Fluoranthene	35	U	6940	5300		ug/Kg	☼	76	45 - 109
Fluorene	35	U	6940	5710		ug/Kg	☼	82	45 - 109
Hexachlorobenzene	35	U	6940	5690		ug/Kg	☼	82	48 - 113
Hexachlorobutadiene	35	U	6940	5510		ug/Kg	☼	79	48 - 109
Hexachlorocyclopentadiene	340	U	6940	5730		ug/Kg	☼	83	21 - 144
Indeno[1,2,3-cd]pyrene	35	U	6940	6560		ug/Kg	☼	95	30 - 136
Isophorone	35	U	6940	4560		ug/Kg	☼	66	48 - 100
Naphthalene	35	U	6940	5280		ug/Kg	☼	76	54 - 98
Nitrobenzene	35	U	6940	5090		ug/Kg	☼	73	51 - 106
N-Nitrosodi-n-propylamine	35	U	6940	4850		ug/Kg	☼	70	47 - 104
Pentachlorophenol	340	U	6940	3150		ug/Kg	☼	45	23 - 116
Phenanthrene	35	U	6940	5960		ug/Kg	☼	86	53 - 106
Phenol	35	U	6940	4460		ug/Kg	☼	64	41 - 100
Pyrene	35	U	6940	5760		ug/Kg	☼	83	39 - 130
Hexachloroethane	35	U	6940	5240		ug/Kg	☼	76	44 - 102

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*47 - 125*
2-Fluorobiphenyl (Surr)	*95*		*59 - 110*
2-Fluorophenol (Surr)	*71*		*54 - 102*
Nitrobenzene-d5 (Surr)	*76*		*44 - 120*
Phenol-d5 (Surr)	*74*		*51 - 104*
Terphenyl-d14 (Surr)	*91*		*59 - 98*

Lab Sample ID: 160-16819-A-1-C MSD
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 245640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	35	U	6930	5230		ug/Kg	☼	76	52 - 103	1	30
1,2-Dichlorobenzene	35	U	6930	4790		ug/Kg	☼	69	50 - 98	9	30
1,3-Dichlorobenzene	35	U	6930	5040		ug/Kg	☼	73	49 - 96	4	30
1,4-Dichlorobenzene	35	U	6930	4980		ug/Kg	☼	72	50 - 96	4	30
2,4,5-Trichlorophenol	35	U	6930	4910		ug/Kg	☼	71	41 - 116	17	30
2,4-Dichlorophenol	35	U	6930	4830		ug/Kg	☼	70	47 - 104	1	30
2,4-Dimethylphenol	35	U	6930	4820		ug/Kg	☼	69	45 - 105	1	30
2,4-Dinitrophenol	340	U	6930	728	J	ug/Kg	☼	11	10 - 100	31	30
2,4-Dinitrotoluene	35	U	6930	4770		ug/Kg	☼	69	42 - 113	12	30
2,6-Dinitrotoluene	35	U	6930	4910		ug/Kg	☼	71	46 - 109	12	30
2-Chloronaphthalene	35	U	6930	5530		ug/Kg	☼	80	52 - 108	9	30
2-Chlorophenol	35	U	6930	4800		ug/Kg	☼	69	48 - 102	5	30
2-Methylnaphthalene	35	U	6930	5370		ug/Kg	☼	77	55 - 97	8	30
2-Methylphenol	35	U	6930	4390		ug/Kg	☼	63	46 - 98	11	30

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: 160-16819-A-1-C MSD
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 245640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitroaniline	35	U	6930	4920		ug/Kg	☼	71	45 - 111	9	30
2-Nitrophenol	35	U	6930	5360		ug/Kg	☼	77	38 - 115	3	30
3,3'-Dichlorobenzidine	340	U	6930	4270		ug/Kg	☼	62	23 - 102	6	30
3-Nitroaniline	35	U	6930	4480		ug/Kg	☼	65	32 - 95	4	30
4,6-Dinitro-2-methylphenol	340	U	6930	2220		ug/Kg	☼	32	15 - 118	15	30
4-Bromophenyl phenyl ether	35	U	6930	6030		ug/Kg	☼	87	53 - 110	2	30
4-Chloro-3-methylphenol	35	U	6930	5000		ug/Kg	☼	72	36 - 111	6	30
4-Chloroaniline	35	U	6930	3670		ug/Kg	☼	53	32 - 79	3	30
4-Chlorophenyl phenyl ether	35	U	6930	5160		ug/Kg	☼	74	51 - 103	16	30
4-Nitroaniline	340	U	6930	4300		ug/Kg	☼	62	36 - 102	21	30
4-Nitrophenol	340	U	6930	4040		ug/Kg	☼	58	40 - 113	10	30
Acenaphthene	35	U	6930	5260		ug/Kg	☼	76	53 - 105	6	30
Acenaphthylene	35	U	6930	5140		ug/Kg	☼	74	55 - 107	11	30
Anthracene	35	U	6930	5380		ug/Kg	☼	78	55 - 103	15	30
Benzo[a]anthracene	35	U	6930	5320		ug/Kg	☼	77	48 - 112	5	30
Benzo[a]pyrene	35	U	6930	6550		ug/Kg	☼	95	46 - 117	2	30
Benzo[b]fluoranthene	35	U	6930	5960		ug/Kg	☼	86	45 - 125	2	30
Benzo[g,h,i]perylene	35	U	6930	7580		ug/Kg	☼	109	24 - 134	2	30
Benzo[k]fluoranthene	35	U	6930	5780		ug/Kg	☼	83	43 - 114	2	30
bis(2 chloro-1-methylethyl) ether	35	U	6930	4330		ug/Kg	☼	63	38 - 98	9	30
Bis(2-chloroethoxy)methane	35	U	6930	5020		ug/Kg	☼	72	49 - 100	1	30
Bis(2-chloroethyl)ether	35	U	6930	4780		ug/Kg	☼	69	49 - 100	2	30
Bis(2-ethylhexyl) phthalate	120	J B	6930	5480		ug/Kg	☼	77	50 - 113	4	30
Butyl benzyl phthalate	35	U	6930	5450		ug/Kg	☼	79	54 - 112	4	30
Carbazole	35	U	6930	4910		ug/Kg	☼	71	47 - 102	17	30
Chrysene	35	U	6930	5440		ug/Kg	☼	79	45 - 115	2	30
Dibenz(a,h)anthracene	35	U	6930	6820		ug/Kg	☼	98	30 - 134	2	30
Dibenzofuran	35	U	6930	5150		ug/Kg	☼	74	50 - 102	10	30
Diethyl phthalate	35	U	6930	4980		ug/Kg	☼	72	46 - 107	9	30
Dimethyl phthalate	35	U	6930	5250		ug/Kg	☼	76	46 - 111	6	30
Di-n-butyl phthalate	35	U	6930	5850		ug/Kg	☼	84	49 - 107	9	30
Di-n-octyl phthalate	35	U	6930	5020		ug/Kg	☼	72	35 - 125	11	30
Fluoranthene	35	U	6930	5700		ug/Kg	☼	82	45 - 109	7	30
Fluorene	35	U	6930	5170		ug/Kg	☼	75	45 - 109	10	30
Hexachlorobenzene	35	U	6930	5810		ug/Kg	☼	84	48 - 113	2	30
Hexachlorobutadiene	35	U	6930	5610		ug/Kg	☼	81	48 - 109	2	30
Hexachlorocyclopentadiene	340	U	6930	5170		ug/Kg	☼	75	21 - 144	10	30
Indeno[1,2,3-cd]pyrene	35	U	6930	7280		ug/Kg	☼	105	30 - 136	10	30
Isophorone	35	U	6930	4660		ug/Kg	☼	67	48 - 100	2	30
Naphthalene	35	U	6930	5270		ug/Kg	☼	76	54 - 98	0	30
Nitrobenzene	35	U	6930	5310		ug/Kg	☼	77	51 - 106	4	30
N-Nitrosodi-n-propylamine	35	U	6930	4390		ug/Kg	☼	63	47 - 104	10	30
Pentachlorophenol	340	U	6930	2360		ug/Kg	☼	34	23 - 116	29	30
Phenanthrene	35	U	6930	5420		ug/Kg	☼	78	53 - 106	9	30
Phenol	35	U	6930	4180		ug/Kg	☼	60	41 - 100	7	30
Pyrene	35	U	6930	5710		ug/Kg	☼	82	39 - 130	1	30
Hexachloroethane	35	U	6930	4700		ug/Kg	☼	68	44 - 102	11	30

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: 160-16819-A-1-C MSD
Matrix: Solid
Analysis Batch: 246224

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 245640

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*47 - 125*
2-Fluorobiphenyl (Surr)	*84*		*59 - 110*
2-Fluorophenol (Surr)	*72*		*54 - 102*
Nitrobenzene-d5 (Surr)	*78*		*44 - 120*
Phenol-d5 (Surr)	*69*		*51 - 104*
Terphenyl-d14 (Surr)	*81*		*59 - 98*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 160-246204/1-A
Matrix: Solid
Analysis Batch: 246357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 246204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	9.6	U	33	9.6	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1221	9.6	U	33	9.6	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1232	9.6	U	33	9.6	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1242	9.6	U	33	9.6	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1248	9.6	U	33	9.6	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1254	8.0	U	33	8.0	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1260	8.0	U	33	8.0	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1262	8.0	U	33	8.0	ug/Kg		04/15/16 09:52	04/18/16 17:19	1
Aroclor 1268	8.0	U	33	8.0	ug/Kg		04/15/16 09:52	04/18/16 17:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 146*	*04/15/16 09:52*	*04/18/16 17:19*	*1*

Lab Sample ID: LCS 160-246204/2-A
Matrix: Solid
Analysis Batch: 246357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 246204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	167	168		ug/Kg		101	52 - 134
Aroclor 1260	167	146		ug/Kg		88	50 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 146*

Lab Sample ID: 160-16835-6 MS
Matrix: Soil
Analysis Batch: 246357

Client Sample ID: B33XP8
Prep Type: Total/NA
Prep Batch: 246204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	10	U	178	160		ug/Kg	☼	90	23 - 140
Aroclor 1260	8.6	U	178	149		ug/Kg	☼	83	20 - 131

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 160-16835-6 MS
Matrix: Soil
Analysis Batch: 246357

Client Sample ID: B33XP8
Prep Type: Total/NA
Prep Batch: 246204

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 146*

Lab Sample ID: 160-16835-6 MSD
Matrix: Soil
Analysis Batch: 246357

Client Sample ID: B33XP8
Prep Type: Total/NA
Prep Batch: 246204

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	10	U	178	157		ug/Kg	☼	88	23 - 140	2	30
Aroclor 1260	8.6	U	178	156		ug/Kg	☼	88	20 - 131	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 146*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-244997/1-A
Matrix: Solid
Analysis Batch: 244998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.14	U	1.0	0.14	mg/Kg		04/08/16 16:30	04/08/16 19:22	1
Nitrate as N	0.055	U	0.20	0.055	mg/Kg		04/08/16 16:30	04/08/16 19:22	1
Nitrite as N	0.055	U	0.20	0.055	mg/Kg		04/08/16 16:30	04/08/16 19:22	1
Sulfate	0.50	U	5.0	0.50	mg/Kg		04/08/16 16:30	04/08/16 19:22	1
Chloride	0.20	U	2.0	0.20	mg/Kg		04/08/16 16:30	04/08/16 19:22	1
Phosphate	0.56	U	5.0	0.56	mg/Kg		04/08/16 16:30	04/08/16 19:22	1

Lab Sample ID: LCS 160-244997/2-A
Matrix: Solid
Analysis Batch: 244998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	9.97	9.97		mg/Kg		100	90 - 110
Nitrate as N	3.99	4.05		mg/Kg		102	90 - 110
Nitrite as N	1.60	1.47		mg/Kg		92	90 - 110
Sulfate	79.8	78.9		mg/Kg		99	90 - 110
Chloride	19.9	19.9		mg/Kg		100	90 - 110
Phosphate	79.8	77.7		mg/Kg		97	90 - 110

Lab Sample ID: 160-16744-C-1-C MS
Matrix: Solid
Analysis Batch: 244998

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 244997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.16	B	20.8	20.9		mg/Kg	☼	100	90 - 110
Nitrate as N	1.8		4.16	6.00		mg/Kg	☼	101	90 - 110
Nitrite as N	0.057	U N	1.04	0.883	N	mg/Kg	☼	85	90 - 110
Sulfate	57		41.6	97.8		mg/Kg	☼	99	90 - 110

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-16744-C-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 244998 — **Prep Batch: 244997**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.9	B	20.8	21.9		mg/Kg	☼	96	90 - 110
Phosphate	0.59	U	41.6	40.1		mg/Kg	☼	96	90 - 110

Lab Sample ID: 160-16744-C-1-B DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 244998 — **Prep Batch: 244997**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.16	B	0.15	U	mg/Kg	☼	NC	20
Nitrate as N	1.8		2.28		mg/Kg	☼	23	20
Nitrite as N	0.057	U N	0.057	U	mg/Kg	☼	NC	20
Sulfate	57		65.3		mg/Kg	☼	14	20
Chloride	1.9	B	2.02	B	mg/Kg	☼	6	20
Phosphate	0.59	U	0.59	U	mg/Kg	☼	NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-245941/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 246914 — **Prep Batch: 245941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.6	U	4.8	1.6	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Arsenic	0.25	U	0.95	0.25	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Barium	0.090	U	1.9	0.090	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Beryllium	0.025	U	0.095	0.025	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Cadmium	0.015	U	0.048	0.015	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Chromium	0.43	U	0.95	0.43	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Cobalt	0.041	U	0.19	0.041	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Copper	0.096	U	0.95	0.096	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Lead	0.095	U	0.29	0.095	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Magnesium	3.6	U	47.7	3.6	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Molybdenum	0.12	U	0.48	0.12	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Nickel	0.10	U	0.48	0.10	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Selenium	0.15	U	0.48	0.15	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Silver	0.023	U	0.19	0.023	mg/Kg		04/14/16 10:39	04/20/16 00:21	2
Uranium	0.019	U	0.095	0.019	mg/Kg		04/14/16 10:39	04/20/16 00:21	2

Lab Sample ID: LCS 160-245941/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 246914 — **Prep Batch: 245941**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Uranium	95.6	95.57		mg/Kg		100	80 - 120

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: LCSSRM 160-245941/3-A
Matrix: Solid
Analysis Batch: 246914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245941

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	7460	6654		mg/Kg		89.2	37.3 - 162.2
Arsenic	139	145.8		mg/Kg		104.9	70.4 - 140.3
Barium	203	200.5		mg/Kg		98.8	73.4 - 127.1
Beryllium	96.1	96.17		mg/Kg		100.1	74.5 - 125.9
Cadmium	96.0	96.65		mg/Kg		100.7	73.2 - 127.1
Chromium	136	131.0		mg/Kg		96.3	69.9 - 129.4
Cobalt	148	163.1		mg/Kg		110.2	74.3 - 125.0
Copper	168	177.4		mg/Kg		105.6	75.6 - 125.0
Lead	133	135.5		mg/Kg		101.9	72.9 - 127.8
Magnesium	2800	2729		mg/Kg		97.5	65.0 - 135.0
Molybdenum	112	115.1		mg/Kg		102.7	70.4 - 131.3
Nickel	123	133.8		mg/Kg		108.8	73.1 - 128.5
Selenium	177	189.6		mg/Kg		107.1	67.8 - 131.6
Silver	40.2	40.45		mg/Kg		100.6	66.2 - 134.1

Lab Sample ID: 160-16835-4 MS
Matrix: Soil
Analysis Batch: 246914

Client Sample ID: B33XP4
Prep Type: Total/NA
Prep Batch: 245941

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	7130	D	1010	10500	D	mg/Kg	☼	334	75 - 125
Arsenic	4.5	B D	101	108.9	D	mg/Kg	☼	104	75 - 125
Barium	90.1	D	101	191.2	D	mg/Kg	☼	100	75 - 125
Beryllium	0.43	B D	101	104.6	D	mg/Kg	☼	104	75 - 125
Cadmium	0.11	B D	101	101.9	D	mg/Kg	☼	101	75 - 125
Chromium	8.4	D	101	109.1	D	mg/Kg	☼	100	75 - 125
Cobalt	9.2	D	101	116.5	D	mg/Kg	☼	107	75 - 125
Copper	14.5	D	101	120.4	D	mg/Kg	☼	105	75 - 125
Lead	5.6	D	101	106.4	D	mg/Kg	☼	100	75 - 125
Magnesium	4890	D	1010	6599	D	mg/Kg	☼	170	75 - 125
Molybdenum	0.65	U	50.3	53.03	D	mg/Kg	☼	105	75 - 125
Nickel	11.0	D	101	121.3	D	mg/Kg	☼	110	75 - 125
Selenium	1.4	B D	50.3	51.82	D	mg/Kg	☼	100	75 - 125
Silver	0.20	B D	20.1	20.50	D	mg/Kg	☼	101	75 - 125
Uranium	0.45	B D	101	103.0	D	mg/Kg	☼	102	75 - 125

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: 160-16835-4 MSD — **Client Sample ID: B33XP4**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 246914 — **Prep Batch: 245941**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	7130	D	1070	10610	D	mg/Kg	☼	325	75 - 125	1	30
Arsenic	4.5	B D	107	116.9	D	mg/Kg	☼	105	75 - 125	7	30
Barium	90.1	D	107	201.0	D	mg/Kg	☼	104	75 - 125	5	30
Beryllium	0.43	B D	107	111.7	D	mg/Kg	☼	104	75 - 125	7	30
Cadmium	0.11	B D	107	110.5	D	mg/Kg	☼	103	75 - 125	8	30
Chromium	8.4	D	107	116.9	D	mg/Kg	☼	101	75 - 125	7	30
Cobalt	9.2	D	107	127.1	D	mg/Kg	☼	110	75 - 125	9	30
Copper	14.5	D	107	129.1	D	mg/Kg	☼	107	75 - 125	7	30
Lead	5.6	D	107	113.7	D	mg/Kg	☼	101	75 - 125	7	30
Magnesium	4890	D	1070	6525	D	mg/Kg	☼	152	75 - 125	1	30
Molybdenum	0.65	U	53.5	56.67	D	mg/Kg	☼	106	75 - 125	7	30
Nickel	11.0	D	107	127.6	D	mg/Kg	☼	109	75 - 125	5	30
Selenium	1.4	B D	53.5	57.10	D	mg/Kg	☼	104	75 - 125	10	30
Silver	0.20	B D	21.4	22.16	D	mg/Kg	☼	103	75 - 125	8	30
Uranium	0.45	B D	107	111.1	D	mg/Kg	☼	103	75 - 125	8	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 160-246054/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 247100 — **Prep Batch: 246054**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0098	U	0.029	0.0098	mg/Kg		04/14/16 12:04	04/20/16 16:38	1

Lab Sample ID: LCSSRM 160-246054/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 247100 — **Prep Batch: 246054**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.9	10.51		mg/Kg		81.5	51.2 - 148.1

Lab Sample ID: 160-16835-4 MS — **Client Sample ID: B33XP4**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 247100 — **Prep Batch: 246054**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.012	U	0.858	0.946		mg/Kg	☼	110	80 - 120

Lab Sample ID: 160-16835-4 MSD — **Client Sample ID: B33XP4**
Matrix: Soil — **Prep Type: Total/NA**
Analysis Batch: 247100 — **Prep Batch: 246054**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.012	U	0.888	0.960		mg/Kg	☼	108	80 - 120	1	30

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-247486/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 247637 — **Prep Batch: 247486**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.092	U	0.50	0.092	mg/Kg		04/23/16 17:30	04/23/16 19:13	1

Lab Sample ID: LCS 160-247486/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 247637 — **Prep Batch: 247486**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.00	5.35		mg/Kg		107	90 - 110

Lab Sample ID: 160-16819-A-1-J MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 247637 — **Prep Batch: 247486**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.69	N	5.21	6.48	N	mg/Kg	☼	111	90 - 110

Lab Sample ID: 160-16819-A-1-I DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 247637 — **Prep Batch: 247486**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.69	N	0.559		mg/Kg	☼	20	30

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 160-246439/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 246823 — **Prep Batch: 246439**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.11	U	0.50	0.11	mg/Kg		04/18/16 17:20	04/18/16 20:56	1

Lab Sample ID: HLCS 160-246439/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 246823 — **Prep Batch: 246439**

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	4.80	4.44		mg/Kg		92	85 - 115

Lab Sample ID: LCS 160-246439/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 246823 — **Prep Batch: 246439**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	2.40	2.17		mg/Kg		91	85 - 115

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

Lab Sample ID: 160-16819-B-1-C MS
Matrix: Solid
Analysis Batch: 246823

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 246439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.12	U	2.51	2.20		mg/Kg	☼	88	60 - 130

Lab Sample ID: 160-16819-B-1-B DU
Matrix: Solid
Analysis Batch: 246823

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 246439

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: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

GC/MS Semi VOA

Prep Batch: 245640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16819-A-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
160-16819-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
160-16835-4	B33XP4	Total/NA	Soil	3550C	
160-16835-5	B33XP5	Total/NA	Soil	3550C	
160-16835-6	B33XP8	Total/NA	Soil	3550C	
LCS 160-245640/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-245640/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 246224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16819-A-1-B MS	Matrix Spike	Total/NA	Solid	8270D	245640
160-16819-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	245640
160-16835-4	B33XP4	Total/NA	Soil	8270D	245640
160-16835-5	B33XP5	Total/NA	Soil	8270D	245640
160-16835-6	B33XP8	Total/NA	Soil	8270D	245640
LCS 160-245640/2-A	Lab Control Sample	Total/NA	Solid	8270D	245640
MB 160-245640/1-A	Method Blank	Total/NA	Solid	8270D	245640

GC Semi VOA

Prep Batch: 246197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-4	B33XP4	Total/NA	Soil	3550C	
160-16835-5	B33XP5	Total/NA	Soil	3550C	
160-16835-6	B33XP8	Total/NA	Soil	3550C	

Prep Batch: 246204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-6	B33XP8	Total/NA	Soil	3550C	
160-16835-6 MS	B33XP8	Total/NA	Soil	3550C	
160-16835-6 MSD	B33XP8	Total/NA	Soil	3550C	
LCS 160-246204/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-246204/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 246357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-6	B33XP8	Total/NA	Soil	8082A	246204
160-16835-6 MS	B33XP8	Total/NA	Soil	8082A	246204
160-16835-6 MSD	B33XP8	Total/NA	Soil	8082A	246204
LCS 160-246204/2-A	Lab Control Sample	Total/NA	Solid	8082A	246204
MB 160-246204/1-A	Method Blank	Total/NA	Solid	8082A	246204

Analysis Batch: 246442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-4	B33XP4	Total/NA	Soil	8015B	246197
160-16835-5	B33XP5	Total/NA	Soil	8015B	246197
160-16835-6	B33XP8	Total/NA	Soil	8015B	246197

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

HPLC/IC

Prep Batch: 244997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16744-C-1-B DU	Duplicate	Total/NA	Solid	DILeach_Prep	
160-16744-C-1-C MS	Matrix Spike	Total/NA	Solid	DILeach_Prep	
160-16835-1	B33XP0	Total/NA	Soil	DILeach_Prep	
160-16835-2	B33XP1	Total/NA	Soil	DILeach_Prep	
160-16835-3	B33XP2	Total/NA	Soil	DILeach_Prep	
LCS 160-244997/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-244997/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 244998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16744-C-1-B DU	Duplicate	Total/NA	Solid	300.0	244997
160-16744-C-1-C MS	Matrix Spike	Total/NA	Solid	300.0	244997
160-16835-1	B33XP0	Total/NA	Soil	300.0	244997
160-16835-2	B33XP1	Total/NA	Soil	300.0	244997
160-16835-3	B33XP2	Total/NA	Soil	300.0	244997
LCS 160-244997/2-A	Lab Control Sample	Total/NA	Solid	300.0	244997
MB 160-244997/1-A	Method Blank	Total/NA	Solid	300.0	244997

Analysis Batch: 244999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16744-C-1-B DU	Duplicate	Total/NA	Solid	300.0	244997
160-16744-C-1-C MS	Matrix Spike	Total/NA	Solid	300.0	244997
160-16835-1	B33XP0	Total/NA	Soil	300.0	244997
160-16835-2	B33XP1	Total/NA	Soil	300.0	244997
160-16835-3	B33XP2	Total/NA	Soil	300.0	244997
LCS 160-244997/2-A	Lab Control Sample	Total/NA	Solid	300.0	244997
MB 160-244997/1-A	Method Blank	Total/NA	Solid	300.0	244997

Metals

Prep Batch: 245941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-4	B33XP4	Total/NA	Soil	3050B	
160-16835-4 MS	B33XP4	Total/NA	Soil	3050B	
160-16835-4 MSD	B33XP4	Total/NA	Soil	3050B	
160-16835-5	B33XP5	Total/NA	Soil	3050B	
160-16835-6	B33XP8	Total/NA	Soil	3050B	
LCS 160-245941/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 160-245941/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-245941/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 246054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-4	B33XP4	Total/NA	Soil	7471B	
160-16835-4 MS	B33XP4	Total/NA	Soil	7471B	
160-16835-4 MSD	B33XP4	Total/NA	Soil	7471B	
160-16835-5	B33XP5	Total/NA	Soil	7471B	
160-16835-6	B33XP8	Total/NA	Soil	7471B	
LCSSRM 160-246054/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 160-246054/1-A	Method Blank	Total/NA	Solid	7471B	

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Metals (Continued)

Analysis Batch: 246914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-4	B33XP4	Total/NA	Soil	6020A	245941
160-16835-4 MS	B33XP4	Total/NA	Soil	6020A	245941
160-16835-4 MSD	B33XP4	Total/NA	Soil	6020A	245941
160-16835-5	B33XP5	Total/NA	Soil	6020A	245941
160-16835-6	B33XP8	Total/NA	Soil	6020A	245941
LCS 160-245941/2-A	Lab Control Sample	Total/NA	Solid	6020A	245941
LCSSRM 160-245941/3-A	Lab Control Sample	Total/NA	Solid	6020A	245941
MB 160-245941/1-A	Method Blank	Total/NA	Solid	6020A	245941

Analysis Batch: 247100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-4	B33XP4	Total/NA	Soil	7471B	246054
160-16835-4 MS	B33XP4	Total/NA	Soil	7471B	246054
160-16835-4 MSD	B33XP4	Total/NA	Soil	7471B	246054
160-16835-5	B33XP5	Total/NA	Soil	7471B	246054
160-16835-6	B33XP8	Total/NA	Soil	7471B	246054
LCSSRM 160-246054/2-A	Lab Control Sample	Total/NA	Solid	7471B	246054
MB 160-246054/1-A	Method Blank	Total/NA	Solid	7471B	246054

General Chemistry

Analysis Batch: 245564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16835-1	B33XP0	Total/NA	Soil	Moisture	
160-16835-2	B33XP1	Total/NA	Soil	Moisture	
160-16835-3	B33XP2	Total/NA	Soil	Moisture	
160-16835-4	B33XP4	Total/NA	Soil	Moisture	
160-16835-5	B33XP5	Total/NA	Soil	Moisture	
160-16835-6	B33XP8	Total/NA	Soil	Moisture	
160-16853-A-4 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 246439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16819-B-1-B DU	Duplicate	Total/NA	Solid	9010C	
160-16819-B-1-C MS	Matrix Spike	Total/NA	Solid	9010C	
160-16835-4	B33XP4	Total/NA	Soil	9010C	
160-16835-5	B33XP5	Total/NA	Soil	9010C	
160-16835-6	B33XP8	Total/NA	Soil	9010C	
HLCS 160-246439/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 160-246439/2-A	Lab Control Sample	Total/NA	Solid	9010C	
MB 160-246439/1-A	Method Blank	Total/NA	Solid	9010C	

Analysis Batch: 246823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16819-B-1-B DU	Duplicate	Total/NA	Solid	9012B	246439
160-16819-B-1-C MS	Matrix Spike	Total/NA	Solid	9012B	246439
160-16835-4	B33XP4	Total/NA	Soil	9012B	246439
160-16835-5	B33XP5	Total/NA	Soil	9012B	246439
160-16835-6	B33XP8	Total/NA	Soil	9012B	246439
HLCS 160-246439/3-A	Lab Control Sample	Total/NA	Solid	9012B	246439

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

General Chemistry (Continued)

Analysis Batch: 246823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-246439/2-A	Lab Control Sample	Total/NA	Solid	9012B	246439
MB 160-246439/1-A	Method Blank	Total/NA	Solid	9012B	246439

Prep Batch: 247486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16819-A-1-I DU	Duplicate	Total/NA	Solid	DILeach_Prep	
160-16819-A-1-J MS	Matrix Spike	Total/NA	Solid	DILeach_Prep	
160-16835-6	B33XP8	Total/NA	Soil	DILeach_Prep	
LCS 160-247486/2-A	Lab Control Sample	Total/NA	Solid	DILeach_Prep	
MB 160-247486/1-A	Method Blank	Total/NA	Solid	DILeach_Prep	

Analysis Batch: 247637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-16819-A-1-I DU	Duplicate	Total/NA	Solid	350.1	247486
160-16819-A-1-J MS	Matrix Spike	Total/NA	Solid	350.1	247486
160-16835-6	B33XP8	Total/NA	Soil	350.1	247486
LCS 160-247486/2-A	Lab Control Sample	Total/NA	Solid	350.1	247486
MB 160-247486/1-A	Method Blank	Total/NA	Solid	350.1	247486

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

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

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
160-16835-4	B33XP4	61	79	68	71	66	80
160-16835-5	B33XP5	61	80	72	76	71	80
160-16835-6	B33XP8	55	78	69	73	67	80

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = 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	TPH
Lab Sample ID	Client Sample ID	(47-125)	(59-110)	(54-102)	(44-120)	(51-104)	(59-98)
160-16819-A-1-B MS	Matrix Spike	83	95	71	76	74	91
160-16819-A-1-C MSD	Matrix Spike Duplicate	75	84	72	78	69	81
LCS 160-245640/2-A	Lab Control Sample	81	82	70	76	71	77
MB 160-245640/1-A	Method Blank	54	77	78	76	73	80

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)
		OTPH1
Lab Sample ID	Client Sample ID	(49-133)
160-16835-4	B33XP4	76
160-16835-5	B33XP5	72
160-16835-6	B33XP8	71

Surrogate Legend

OTPH = o-Terphenyl

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F15-011

TestAmerica Job ID: 160-16835-1
SDG: SL2164

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**DCB1 (23-146)**							
160-16835-6	B33XP8	83							
160-16835-6 MS	B33XP8	78							
160-16835-6 MSD	B33XP8	86							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**DCB1 (23-146)**							
LCS 160-246204/2-A	Lab Control Sample	82							
MB 160-246204/1-A	Method Blank	79							

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)