June 16, 2015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

TestAmerica Job ID: 140-3240-1
TestAmerica Sample Delivery Group: W07103
Client Project/Site: F11-150

For:
CH2M Hill Plateau Remediation Company
PO BOX 1600
Mail Stop R3-50
Richland, Washington 99352

Attn: Mr. Scot Fitzgerald

Authorized for release by:
6/16/2015 3:22:36 PM

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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Definitions/Glossary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Qualifiers

Air - GC/MS 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.
D	The reported value is from a dilution.

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)

Job ID: 140-3240-1

Laboratory: TestAmerica Knoxville

Narrative

Job Narrative
140-3240-1

Comments
No additional comments.

Receipt
The samples were received on 6/9/2015 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Per client instructions, the firm responsible for delivery was filled in and dated by the sample receiving department on completion of the shipment. Relinquished date and time recorded is the same as laboratory receipt date and time.

Air - GC/MS VOA
The dilution factor field in TALS documents the dilution performed on the canister ("in-can" or "serial" dilution) and the results are adjusted accordingly. In addition to dilution factors on the canister, a volume other than 500 mL is also used to adjust the final results. It is necessary to examine the lab chronicle to obtain the volume of sample analyzed. For example, if a canister did not have a dilution performed on it, but only 50 mL was analyzed, then the results will increase by a factor of 10, and the dilution factor will be 1.

Qualifier Description

U: Analyzed for but not detected.
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D: The reported value is from a dilution

Method(s) TO-14A, TO-14A Low: EPA methods TO-14A and TO-15 specify the use of humidified “zero air” as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of “zero air” by TestAmerica Knoxville.

EPA methods TO-14 and TO-14A specify that the relative accuracy of the field sampler or sample delivery system must meet 90-110% for a standard at 8 ppb(v/v). The laboratory control sample (LCS) summary data in this report is evaluated against alternate acceptance criteria based on the laboratory procedure for methods TO-14 and TO-14A. Please refer to the LCS summary report for the actual observed recoveries and acceptance criteria for the LCS.

Method(s) TO-14A Low, TO-15: The continuing calibration verification (CCV) associated with batch 2879 exhibited % difference of > 30% for the following analyte(s) acetone, 2-butanone and/or 1,4-dioxane; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO 14 Low The concentrations of carbon tetrachloride in samples B31CC6 (140-3240-5) exceeded the calibration levels of the instrument. The sample volume was adjusted to bring the concentration of the compound into the instrument calibration range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Client Sample ID: B31CC2 — Lab Sample ID: 140-3240-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.21	J	0.40	0.080	ppb v/v	1		TO-14A Low	Total/NA
Acetone	3.14		2.00	0.54	ppb v/v	1		TO-14A Low	Total/NA
Carbon tetrachloride	6.18		0.080	0.015	ppb v/v	1		TO-14A Low	Total/NA
Chloroform	0.096		0.080	0.015	ppb v/v	1		TO-14A Low	Total/NA
Tetrachloroethene	0.041	J	0.080	0.016	ppb v/v	1		TO-14A Low	Total/NA
Trichloroethene	0.029	J	0.040	0.014	ppb v/v	1		TO-14A Low	Total/NA

Client Sample ID: B31CC3 — Lab Sample ID: 140-3240-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	42100	D	960	180	ppb v/v	1200		TO-14A Low	Total/NA
Chloroform	666	J D	960	180	ppb v/v	1200		TO-14A Low	Total/NA

Client Sample ID: B31CC4 — Lab Sample ID: 140-3240-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.46	J	20.0	5.40	ppb v/v	1		TO-14A Low	Total/NA
Chloroform	17.2		0.80	0.15	ppb v/v	1		TO-14A Low	Total/NA
Tetrachloroethene	22.9		0.80	0.16	ppb v/v	1		TO-14A Low	Total/NA
Trichloroethene	7.49		0.40	0.14	ppb v/v	1		TO-14A Low	Total/NA
Carbon tetrachloride - DL	2180	D	15.0	2.82	ppb v/v	3.76		TO-14A Low	Total/NA

Client Sample ID: B31CC5 — Lab Sample ID: 140-3240-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	111000	D	2400	450	ppb v/v	3000		TO-14A Low	Total/NA
Chloroform	706	J D	2400	450	ppb v/v	3000		TO-14A Low	Total/NA

Client Sample ID: B31CC6 — Lab Sample ID: 140-3240-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.60		0.40	0.080	ppb v/v	1		TO-14A Low	Total/NA
Acetone	9.78		2.00	0.54	ppb v/v	1		TO-14A Low	Total/NA
Chloroform	8.09		0.080	0.015	ppb v/v	1		TO-14A Low	Total/NA
Methylene Chloride	0.27		0.20	0.13	ppb v/v	1		TO-14A Low	Total/NA
Tetrachloroethene	13.9		0.080	0.016	ppb v/v	1		TO-14A Low	Total/NA
Trichloroethene	0.53		0.040	0.014	ppb v/v	1		TO-14A Low	Total/NA
Carbon tetrachloride - DL	107		0.80	0.15	ppb v/v	1		TO-14A Low	Total/NA

Client Sample ID: B31CC7 — Lab Sample ID: 140-3240-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	128000	D	1900	356	ppb v/v	3318.58		TO-14A Low	Total/NA
Chloroform	707	J D	1900	356	ppb v/v	3318.58		TO-14A Low	Total/NA
Tetrachloroethene	1560	J D	1900	379	ppb v/v	3318.58		TO-14A Low	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B31CC2
Lab Sample ID: 140-3240-1
Date Collected: 06/05/15 08:26
Matrix: Air
Date Received: 06/09/15 10:00
Sample Container: Summa Canister 6L

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**0.21**	**J**	0.40	0.080	ppb v/v			06/11/15 21:42	1
Acetone	**3.14**		2.00	0.54	ppb v/v			06/11/15 21:42	1
Carbon tetrachloride	**6.18**		0.080	0.015	ppb v/v			06/11/15 21:42	1
Chloroform	**0.096**		0.080	0.015	ppb v/v			06/11/15 21:42	1
Methylene Chloride	0.13	U	0.20	0.13	ppb v/v			06/11/15 21:42	1
Tetrachloroethene	**0.041**	**J**	0.080	0.016	ppb v/v			06/11/15 21:42	1
Trichloroethene	**0.029**	**J**	0.040	0.014	ppb v/v			06/11/15 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*60 - 140*		*06/11/15 21:42*	*1*

Client Sample ID: B31CC3
Lab Sample ID: 140-3240-2
Date Collected: 06/05/15 08:44
Matrix: Air
Date Received: 06/09/15 10:00
Sample Container: Summa Canister 6L

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	960	U	4800	960	ppb v/v			06/11/15 22:29	1200
Acetone	6480	U	24000	6480	ppb v/v			06/11/15 22:29	1200
Carbon tetrachloride	**42100**	**D**	960	180	ppb v/v			06/11/15 22:29	1200
Chloroform	**666**	**J D**	960	180	ppb v/v			06/11/15 22:29	1200
Methylene Chloride	1560	U	2400	1560	ppb v/v			06/11/15 22:29	1200
Tetrachloroethene	192	U	960	192	ppb v/v			06/11/15 22:29	1200
Trichloroethene	168	U	480	168	ppb v/v			06/11/15 22:29	1200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*60 - 140*		*06/11/15 22:29*	*1200*

Client Sample ID: B31CC4
Lab Sample ID: 140-3240-3
Date Collected: 06/05/15 09:29
Matrix: Air
Date Received: 06/09/15 10:00
Sample Container: Summa Canister 6L

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	0.80	U	4.00	0.80	ppb v/v			06/11/15 23:17	1
Acetone	**7.46**	**J**	20.0	5.40	ppb v/v			06/11/15 23:17	1
Chloroform	**17.2**		0.80	0.15	ppb v/v			06/11/15 23:17	1
Methylene Chloride	1.30	U	2.00	1.30	ppb v/v			06/11/15 23:17	1
Tetrachloroethene	**22.9**		0.80	0.16	ppb v/v			06/11/15 23:17	1
Trichloroethene	**7.49**		0.40	0.14	ppb v/v			06/11/15 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*06/11/15 23:17*	*1*

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**2180**	**D**	15.0	2.82	ppb v/v			06/12/15 10:28	3.76

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Client Sample ID: B31CC4 — Lab Sample ID: 140-3240-3

Date Collected: 06/05/15 09:29
Date Received: 06/09/15 10:00
Sample Container: Summa Canister 6L
Matrix: Air

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		60 - 140		06/12/15 10:28	3.76

Client Sample ID: B31CC5 — Lab Sample ID: 140-3240-4

Date Collected: 06/06/15 08:38
Date Received: 06/09/15 10:00
Sample Container: Summa Canister 6L
Matrix: Air

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2400	U	12000	2400	ppb v/v			06/12/15 00:05	3000
Acetone	16200	U	60000	16200	ppb v/v			06/12/15 00:05	3000
Carbon tetrachloride	**111000**	**D**	2400	450	ppb v/v			06/12/15 00:05	3000
Chloroform	**706**	**J D**	2400	450	ppb v/v			06/12/15 00:05	3000
Methylene Chloride	3900	U	6000	3900	ppb v/v			06/12/15 00:05	3000
Tetrachloroethene	480	U	2400	480	ppb v/v			06/12/15 00:05	3000
Trichloroethene	420	U	1200	420	ppb v/v			06/12/15 00:05	3000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		60 - 140		06/12/15 00:05	3000

Client Sample ID: B31CC6 — Lab Sample ID: 140-3240-5

Date Collected: 06/06/15 07:26
Date Received: 06/09/15 10:00
Sample Container: Summa Canister 6L
Matrix: Air

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**0.60**		0.40	0.080	ppb v/v			06/12/15 00:58	1
Acetone	**9.78**		2.00	0.54	ppb v/v			06/12/15 00:58	1
Chloroform	**8.09**		0.080	0.015	ppb v/v			06/12/15 00:58	1
Methylene Chloride	**0.27**		0.20	0.13	ppb v/v			06/12/15 00:58	1
Tetrachloroethene	**13.9**		0.080	0.016	ppb v/v			06/12/15 00:58	1
Trichloroethene	**0.53**		0.040	0.014	ppb v/v			06/12/15 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		60 - 140		06/12/15 00:58	1

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	**107**		0.80	0.15	ppb v/v			06/12/15 08:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		60 - 140		06/12/15 08:51	1

Client Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Client Sample ID: B31CC7

Lab Sample ID: 140-3240-6
Matrix: Air

Date Collected: 06/06/15 08:20
Date Received: 06/09/15 10:00
Sample Container: Summa Canister 6L

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	1900	U	9480	1900	ppb v/v			06/12/15 01:44	3318.58
Acetone	12800	U	47400	12800	ppb v/v			06/12/15 01:44	3318.58
Carbon tetrachloride	**128000**	**D**	1900	356	ppb v/v			06/12/15 01:44	3318.58
Chloroform	**707**	**J D**	1900	356	ppb v/v			06/12/15 01:44	3318.58
Methylene Chloride	3080	U	4740	3080	ppb v/v			06/12/15 01:44	3318.58
Tetrachloroethene	**1560**	**J D**	1900	379	ppb v/v			06/12/15 01:44	3318.58
Trichloroethene	332	U	948	332	ppb v/v			06/12/15 01:44	3318.58

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*06/12/15 01:44*	*3318.58*

Surrogate Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**BFB (60-140)**							
140-3240-1	B31CC2	96							
140-3240-2	B31CC3	93							
140-3240-3	B31CC4	97							
140-3240-3 - DL	B31CC4	92							
140-3240-4	B31CC5	94							
140-3240-5	B31CC6	99							
140-3240-5 - DL	B31CC6	95							
140-3240-6	B31CC7	94							
LCS 140-2879/1002	Lab Control Sample	99							
MB 140-2879/4	Method Blank	94							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Method: TO-14A Low - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 140-2879/4
Matrix: Air
Analysis Batch: 2879

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	0.080	U	0.40	0.080	ppb v/v			06/11/15 14:12	1
Acetone	0.54	U	2.00	0.54	ppb v/v			06/11/15 14:12	1
Carbon tetrachloride	0.015	U	0.080	0.015	ppb v/v			06/11/15 14:12	1
Chloroform	0.015	U	0.080	0.015	ppb v/v			06/11/15 14:12	1
Methylene Chloride	0.13	U	0.20	0.13	ppb v/v			06/11/15 14:12	1
Tetrachloroethene	0.016	U	0.080	0.016	ppb v/v			06/11/15 14:12	1
Trichloroethene	0.014	U	0.040	0.014	ppb v/v			06/11/15 14:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*60 - 140*		*06/11/15 14:12*	*1*

Lab Sample ID: LCS 140-2879/1002
Matrix: Air
Analysis Batch: 2879

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	2.00	1.363		ppb v/v		68	60 - 140
Acetone	6.00	4.076		ppb v/v		68	60 - 140
Carbon tetrachloride	2.00	1.643		ppb v/v		82	70 - 130
Chloroform	2.00	1.636		ppb v/v		82	70 - 130
Methylene Chloride	2.00	1.513		ppb v/v		76	70 - 130
Tetrachloroethene	2.00	1.542		ppb v/v		77	70 - 130
Trichloroethene	2.00	1.468		ppb v/v		73	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*

QC Association Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Air - GC/MS VOA

Analysis Batch: 2879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-3240-1	B31CC2	Total/NA	Air	TO-14A Low	
140-3240-2	B31CC3	Total/NA	Air	TO-14A Low	
140-3240-3	B31CC4	Total/NA	Air	TO-14A Low	
140-3240-3 - DL	B31CC4	Total/NA	Air	TO-14A Low	
140-3240-4	B31CC5	Total/NA	Air	TO-14A Low	
140-3240-5	B31CC6	Total/NA	Air	TO-14A Low	
140-3240-5 - DL	B31CC6	Total/NA	Air	TO-14A Low	
140-3240-6	B31CC7	Total/NA	Air	TO-14A Low	
LCS 140-2879/1002	Lab Control Sample	Total/NA	Air	TO-14A Low	
MB 140-2879/4	Method Blank	Total/NA	Air	TO-14A Low	

Client Sample ID: B31CC2 — Lab Sample ID: 140-3240-1
Date Collected: 06/05/15 08:26 — **Matrix: Air**
Date Received: 06/09/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		1	500 mL	500 mL	2879	06/11/15 21:42	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: B31CC3 — Lab Sample ID: 140-3240-2
Date Collected: 06/05/15 08:44 — **Matrix: Air**
Date Received: 06/09/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		1200	50 mL	500 mL	2879	06/11/15 22:29	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: B31CC4 — Lab Sample ID: 140-3240-3
Date Collected: 06/05/15 09:29 — **Matrix: Air**
Date Received: 06/09/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		1	50 mL	500 mL	2879	06/11/15 23:17	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-14A Low	DL	3.76	10 mL	500 mL	2879	06/12/15 10:28	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: B31CC5 — Lab Sample ID: 140-3240-4
Date Collected: 06/06/15 08:38 — **Matrix: Air**
Date Received: 06/09/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		3000	50 mL	500 mL	2879	06/12/15 00:05	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: B31CC6 — Lab Sample ID: 140-3240-5
Date Collected: 06/06/15 07:26 — **Matrix: Air**
Date Received: 06/09/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		1	500 mL	500 mL	2879	06/12/15 00:58	HMT	TAL KNX
	Instrument ID: ME									
Total/NA	Analysis	TO-14A Low	DL	1	50 mL	500 mL	2879	06/12/15 08:51	HMT	TAL KNX
	Instrument ID: ME									

Lab Chronicle

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Client Sample ID: B31CC7

Lab Sample ID: 140-3240-6
Date Collected: 06/06/15 08:20
Matrix: Air
Date Received: 06/09/15 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		3318.58	70 mL	500 mL	2879	06/12/15 01:44	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-2879/1002
Date Collected: N/A
Matrix: Air
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		1	500 mL	500 mL	2879	06/11/15 12:00	HMT	TAL KNX
	Instrument ID: ME									

Client Sample ID: Method Blank

Lab Sample ID: MB 140-2879/4
Date Collected: N/A
Matrix: Air
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-14A Low		1	500 mL	500 mL	2879	06/11/15 14:12	HMT	TAL KNX
	Instrument ID: ME									

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-16-16
California	State Program	9	2423	06-30-16
Colorado	State Program	8	N/A	02-28-16
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-15
Georgia	State Program	4	906	04-13-17
Hawaii	State Program	9	N/A	04-13-16
Kansas	NELAP	7	E-10349	06-30-15
Kentucky (DW)	State Program	4	90101	12-31-15
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	83979	06-30-15
Louisiana (DW)	NELAP	6	LA110001	12-31-15
Maryland	State Program	3	277	03-31-16
Michigan	State Program	5	9933	04-13-17
Nevada	State Program	9	TN00009	07-31-15
New Jersey	NELAP	2	TN001	06-30-15
New York	NELAP	2	10781	03-31-16
North Carolina (DW)	State Program	4	21705	07-31-15
North Carolina (WW/SW)	State Program	4	64	12-31-15
Ohio VAP	State Program	5	CL0059	01-16-17
Oklahoma	State Program	6	9415	08-31-15
Pennsylvania	NELAP	3	68-00576	12-31-15
South Carolina	State Program	4	84001	06-30-15
Tennessee	State Program	4	2014	04-13-17
Texas	NELAP	6	T104704380-TX	08-31-15
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-15
Virginia	NELAP	3	460176	09-14-15
Virginia	State Program	3	165	06-30-15
Washington	State Program	10	C593	01-19-16
West Virginia (DW)	State Program	3	9955C	12-31-15
West Virginia DEP	State Program	3	345	04-30-16
Wisconsin	State Program	5	998044300	08-31-15

Method Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Method	Method Description	Protocol	Laboratory
TO-14A Low	Volatile Organic Compounds in Ambient Air	EPA-21	TAL KNX

Protocol References:

EPA-21 = "Compendium Of Methods For The Determination Of Toxic Organic Compounds In Ambient Air", Second Edition, EPA/625/R-96/010B, January 1999

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: CH2M Hill Plateau Remediation Company
Project/Site: F11-150

TestAmerica Job ID: 140-3240-1
SDG: W07103

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-3240-1	B31CC2	Air	06/05/15 08:26	06/09/15 10:00
140-3240-2	B31CC3	Air	06/05/15 08:44	06/09/15 10:00
140-3240-3	B31CC4	Air	06/05/15 09:29	06/09/15 10:00
140-3240-4	B31CC5	Air	06/06/15 08:38	06/09/15 10:00
140-3240-5	B31CC6	Air	06/06/15 07:26	06/09/15 10:00
140-3240-6	B31CC7	Air	06/06/15 08:20	06/09/15 10:00

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-150-015	PAGE 1 OF 1
COLLECTOR J.R. Aguilar/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 9C	DATA TURNAROUND
SAMPLING LOCATION 200-PW-1, Well 299-W18-7	PROJECT DESIGNATION 200-PW-1 SVE Trailers Operational Monitoring - Gaseous		SAF NO. F11-150	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO. FB-1	FIELD LOGBOOK NO. HNF-N-491-1 / 116	ACTUAL SAMPLE DEPTH N/A	COA 302858	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Knoxville	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. 7737 7823 6019		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
HOLDING TIME	30 Days
TYPE OF CONTAINER	Summa Canister
NO. OF CONTAINER(S)	1
VOLUME	6L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31CC2	GASEOUS	6-5-15	0826	✓

Received @ ambient, 1 box
Fedex PO, trk# 7737 7823 6019
Custody seal intact, 15 day TAT
KW 6/9/15
6 cans, 5 gauges, 1 flow
SDG: W07103

140-3240 Chain of Custody

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM J.R. Aguilar/CHPRC	DATE/TIME JUN 05 2015 0955	RECEIVED BY/STORED IN L.D. Wall CHPRC	DATE/TIME JUN 05 2015 0955
RELINQUISHED BY/REMOVED FROM L.D. Wall CHPRC	DATE/TIME JUN 05 2015 1117	RECEIVED BY/STORED IN SSU #1	DATE/TIME JUN 05 2015 1117
RELINQUISHED BY/REMOVED FROM SSU #1	DATE/TIME JUN 08 2015 0930	RECEIVED BY/STORED IN B.E. Briggs CHPRC	DATE/TIME JUN 08 2015 0930
RELINQUISHED BY/REMOVED FROM B.E. Briggs CHPRC	DATE/TIME JUN 08 2015 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM delivered by Fedex 6/9/15 1000 / filled out by KW	DATE/TIME	RECEIVED BY/STORED IN Ken Wilson 6/9/15	DATE/TIME 1000
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
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-073
(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylene chloride, Tetrachloroethene, Trichloroethene};

TRVL-15-077

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

PRINTED ON 4/30/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-150-016	PAGE 1 OF 1
COLLECTOR J.R. Aguilar/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 9C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 200-PW-1, Well 299-W18-165	PROJECT DESIGNATION 200-PW-1 SVE Trailers Operational Monitoring - Gaseous		SAF NO. F11-150		
ICE CHEST NO. FB-1	FIELD LOGBOOK NO. HNF-N-491-1/116	ACTUAL SAMPLE DEPTH N/A	COA 302858	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Knoxville	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. ~~N/A~~ bb 6/8/15 7737 7823 6019		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
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	*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.	PRESERVATION	None
		HOLDING TIME	30 Days
		TYPE OF CONTAINER	Summa Canister
		NO. OF CONTAINER(S)	1
		VOLUME	6L
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31CC3	GASEOUS	6-5-15	0844	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM J.R. Aguilar/CHPRC	DATE/TIME JUN 0 5 2015 0955	RECEIVED BY/STORED IN L.D. Wall CHPRC R.D. Wall	DATE/TIME JUN 0 5 2015 0955
RELINQUISHED BY/REMOVED FROM L.D. Wall CHPRC R.D. Wall	DATE/TIME JUN 0 5 2015 1117	RECEIVED BY/STORED IN SSU #1	DATE/TIME JUN 0 5 2015 1117
RELINQUISHED BY/REMOVED FROM SSU #1	DATE/TIME JUN 0 8 2015 0930	RECEIVED BY/STORED IN B.E. Briggs CHPRC B.E. Briggs	DATE/TIME JUN 0 8 2015 0930
RELINQUISHED BY/REMOVED FROM B.E. Briggs CHPRC B.E. Briggs	DATE/TIME JUN 0 8 2015 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM delivered by Fedex 6/9/15 1000/filled out KW	DATE/TIME	RECEIVED BY/STORED IN Ken Wilson 6/9/15 1000	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

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-073
(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylene chloride, Tetrachloroethene, Trichloroethene};

TRVL-15-077

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

PRINTED ON 4/30/2015

A-6003-618 (REV 2)

48165

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-150-017	PAGE 1 OF 1
COLLECTOR J.R. Aguilar/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 9C	DATA TURNAROUND
SAMPLING LOCATION 200-PW-1, Probe CPT-30 (68-ft)	PROJECT DESIGNATION 200-PW-1 SVE Trailers Operational Monitoring - Gaseous		SAF NO. F11-150	AIR QUALITY ☐	15 Days / 15 Days
ICE CHEST NO. FB-1	FIELD LOGBOOK NO. HNF-N-491-1 / 116	ACTUAL SAMPLE DEPTH N/A	COA 302858	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Knoxville	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. ~~N/A~~ bb 6-8-15 7737 7823 6019		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
HOLDING TIME	30 Days
TYPE OF CONTAINER	Summa Canister
NO. OF CONTAINER(S)	1
VOLUME	6L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31CC4	GASEOUS	6-5-15	0929	✓

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM J.R. Aguilar/CHPRC	JUN 05 2015 0955	RECEIVED BY/STORED IN L.D. Wall CHPRC	JUN 05 2015 0955
RELINQUISHED BY/REMOVED FROM L.D. Wall CHPRC	JUN 05 2015 1117	RECEIVED BY/STORED IN SSU#1	JUN 05 2015 1117
RELINQUISHED BY/REMOVED FROM SSU#1	JUN 08 2015 0930	RECEIVED BY/STORED IN B.E. Briggs CHPRC	JUN 08 2015 0930
RELINQUISHED BY/REMOVED FROM B.E. Briggs CHPRC	JUN 08 2015 1400	RECEIVED BY/STORED IN FEDEX	
RELINQUISHED BY/REMOVED FROM delivered by Fedex 6/9/15 1000/filled out by KW		RECEIVED BY/STORED IN Ken Wilson	6/9/15 1000
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM		RECEIVED BY/STORED IN	

SPECIAL INSTRUCTIONS
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-073
(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylene chloride, Tetrachloroethene, Trichloroethene};

TRVL- 15- 077

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

PRINTED ON 4/30/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F11-150-018	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 9C	DATA TURNAROUND
J.R. Aguilar/CHPRC	EVANS, RT	373-7924	SUMNER, LC	AIR QUALITY ☐	15 Days / 15 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
200-PW-1, Probe CPT-28 (87-ft)	200-PW-1 SVE Trailers Operational Monitoring - Gaseous		F11-150		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
FB-1	HNF-N-491-1/117	N/A	302858	FEDERAL EXPRESS	**ORIGINAL**
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica Knoxville	SEE PTR		~~N/A~~ bb 7737 7823 6019 6.8.15		

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

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None
HOLDING TIME	30 Days
TYPE OF CONTAINER	Summa Canister
NO. OF CONTAINER(S)	1
VOLUME	6L
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31CC5	GASEOUS	6-6-15	0838	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J.R. Aguilar/CHPRC	JUN 0 6 2015 1020	SSU#1	JUN 0 6 2015 1020
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
SSU#1	JUN 0 8 2015 0930	B.E. Briggs CHPRC	JUN 0 8 2015 0930
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B.E. Briggs CHPRC	JUN 0 8 2015 1400	FEDEX	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
delivered by Fedex 6/9/15 1000/Filled out by		Ken Wilson	6/9/15 1000
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
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-073
(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylene chloride, Tetrachloroethene, Trichloroethene};

TRVL-15-077

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

PRINTED ON 4/30/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-150-019	PAGE 1 OF 1
COLLECTOR J.R. Aguilar/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 9C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 200-PW-1, Well 299-W15-8U	PROJECT DESIGNATION 200-PW-1 SVE Trailers Operational Monitoring - Gaseous		SAF NO. F11-150		
ICE CHEST NO. FB-1	FIELD LOGBOOK NO. HNF-N-491-1 / 117	ACTUAL SAMPLE DEPTH N/A	COA 302858	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Knoxville	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. N/A 7737 7823 6019		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
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	*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.	PRESERVATION	None
		HOLDING TIME	30 Days
		TYPE OF CONTAINER	Summa Canister
		NO. OF CONTAINER(S)	1
		VOLUME	6L
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31CC6	GASEOUS	6-6-15	0726	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM J.R. Aguilar/CHPRC	DATE/TIME JUN 0 6 2015 1020	RECEIVED BY/STORED IN SSU #1	DATE/TIME JUN 0 6 2015 1020
RELINQUISHED BY/REMOVED FROM SSU#1	DATE/TIME JUN 0 8 2015 0930	RECEIVED BY/STORED IN B.E. Briggs CHPRC	DATE/TIME JUN 0 8 2015 0930
RELINQUISHED BY/REMOVED FROM B.E. Briggs CHPRC	DATE/TIME JUN 0 8 2015 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM delivered by Fedex 6/9/15 1000/Filled out by KW	DATE/TIME	RECEIVED BY/STORED IN Ken Wilson 6/9/15 1000	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

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-073
(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylene chloride, Tetrachloroethene, Trichloroethene};

TRVL- 15- 077

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

PRINTED ON 4/30/2015

A-6003-618 (REV 2)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-150-020	PAGE 1 OF 1
COLLECTOR J.R. Aguilar/CHPRC	COMPANY CONTACT EVANS, RT	TELEPHONE NO. 373-7924	PROJECT COORDINATOR SUMNER, LC	PRICE CODE 9C AIR QUALITY ☐	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 200-PW-1, Probe CPT-21A (86-ft)	PROJECT DESIGNATION 200-PW-1 SVE Trailers Operational Monitoring - Gaseous		SAF NO. F11-150		
ICE CHEST NO. FB-1	FIELD LOGBOOK NO. HNF-N-491-1/117	ACTUAL SAMPLE DEPTH N/A	COA 302858	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO TestAmerica Knoxville	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. N/A 7737 7823 6019		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
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	*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.	PRESERVATION	None
		HOLDING TIME	30 Days
		TYPE OF CONTAINER	Summa Canister
		NO. OF CONTAINER(S)	1
		VOLUME	6L
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B31CC7	GASEOUS	6-6-15	0820	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM J.R. Aguilar/CHPRC	DATE/TIME JUN 0 6 2015 1020	RECEIVED BY/STORED IN SSU #1	DATE/TIME JUN 0 6 2015 1020
RELINQUISHED BY/REMOVED FROM SSU#1	DATE/TIME JUN 0 8 2015 0930	RECEIVED BY/STORED IN B.E. Briggs CHPRC	DATE/TIME JUN 0 8 2015 0930
RELINQUISHED BY/REMOVED FROM B.E. Briggs CHPRC	DATE/TIME JUN 0 8 2015 1400	RECEIVED BY/STORED IN FEDEX	DATE/TIME
RELINQUISHED BY/REMOVED FROM delivered by Fedex 6/9/15 1000 / Filled out by	DATE/TIME	RECEIVED BY/STORED IN Ken Wilson	DATE/TIME 6/9/15 1000
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

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. TRVL-15-073
(1) VOA - T0-14 {2-Butanone, Acetone, Carbon tetrachloride, Chloroform, Methylene chloride, Tetrachloroethene, Trichloroethene};

TRVL- 15- 077

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

PRINTED ON 4/30/2015

A-6003-618 (REV 2)

Login Sample Receipt Checklist

Client: CH2M Hill Plateau Remediation Company

Job Number: 140-3240-1
SDG Number: W07103

Login Number: 3240
List Number: 1
Creator: Wilson, Ken

List Source: TestAmerica Knoxville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	This is checked in the lab.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica Knoxville - Air Canister Initial Pressure Check

Gauge ID: g1
Date: 6/9/2015

Analyst	Sample ID	Asset #	Cert	6 L	1 L	Pressure @ Receipt (-in Hg or +psig)	Time	Comments
HMT	140-3240-A-1	10991	B	X		0.0	13:30	
HMT	140-3240-A-2	10249	B	X		0.0	13:31	
HMT	140-3240-A-3	09525	B	X		-6.2	13:32	
HMT	140-3240-A-4	10558	B	X		0.0	13:33	
HMT	140-3240-A-5	10531	B	X		0.0	13:34	
HMT	140-3240-A-6	09976	B	X		-1.3	13:35	