



Tuesday, March 12, 2019

Jeremiah Demuth
Expedition Water Solutions
2015 Clubhouse Dr., Ste. 201
Greeley, CO 80634

Re: ALS Workorder: 1903124
Project Name: EWS #6
Project Number:

Dear Mr. Demuth:

Six soil samples were received from Expedition Water Solutions, on 3/8/2019. The samples were scheduled for the following analyses:

GC/MS Volatiles

Total Extractable Petroleum Hydrocarbons (Diesel)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Marcela M. Hobgood
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



1903124

GC/MS Volatiles:

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C. The samples were also analyzed for Gasoline Range Organics (GRO).

All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria with the following exception:

Spiked Compound	QC Sample	Direction
Gasoline range organics	LCS/LCSD	RPD High

Since the recoveries for this compound in the laboratory control sample and laboratory control sample duplicate were within control limits, with only the RPD exceeding acceptance criteria, quantitations of target compounds were not compromised. No further action was taken.

All remaining acceptance criteria were met.

DRO:

The samples were analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1903124

Client Name: Expedition Water Solutions

Client Project Name: EWS #6

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
EWS6-1	1903124-1		SOIL	08-Mar-19	7:00
EWS6-2	1903124-2		SOIL	08-Mar-19	7:00
EWS6-3	1903124-3		SOIL	08-Mar-19	7:00
EWS6-4	1903124-4		SOIL	08-Mar-19	7:00
EWS6-5	1903124-5		SOIL	08-Mar-19	7:00
EWS6-C	1903124-6		SOIL	08-Mar-19	7:00



Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.

ALS WORKORDER #

1903124

[illegible]



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: Expedition Workorder No: 19031274 ^{Em} 3-8-19
Project Manager: MMH Initials: Em Date: 3-8-19

1. Are airbills / shipping documents present and/or removable?	<u>DROP OFF</u>	YES	NO
2. Are custody seals on shipping containers intact?	<u>NONE</u>	YES	NO *
3. Are custody seals on sample containers intact?	<u>NONE</u>	YES	NO *
4. Is there a COC (chain-of-custody) present?	<u>YES</u>	YES	NO *
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)	<u>YES</u>	YES	NO *
6. Are short-hold samples present?	<u>YES</u>	YES	NO
7. Are all samples within holding times for the requested analyses?	<u>YES</u>	YES	NO *
8. Were all sample containers received intact? (not broken or leaking)	<u>YES</u>	YES	NO *
9. Is there sufficient sample for the requested analyses?	<u>YES</u>	YES	NO *
10. Are all samples in the proper containers for the requested analyses?	<u>YES</u>	YES	NO *
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)	<u>N/A</u>	YES	NO *
12. Are all aqueous non-preserved samples pH 4-9?	<u>N/A</u>	YES	NO *
13. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)	<u>N/A</u>	YES	NO
14. Were the samples shipped on ice?	<u>YES</u>	YES	NO
15. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <u>#1</u> #3 #4	RAD ONLY	YES
Cooler #: <u>1</u>			
Temperature (°C): <u>9.4</u>			
No. of custody seals on cooler: <u>0</u>			
External µR/hr reading: <u>NA</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

* Please provide details here for NO responses to gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

#5) Labels on jars were illegible.
Client re-labeled the jars → mar 3-8-19

All client bottle ID's vs ALS lab ID's double-checked by:

If applicable, was the client contacted? YES / NO / NA Contact: Date/Time:

Project Manager Signature / Date: MMH Jan 3-8-19

Client: Expedition Water Solutions

Date: 12-Mar-19

Project: EWS #6

Work Order: 1903124

Sample ID: EWS6-1

Lab ID: 1903124-1

Legal Location:

Matrix: SOIL

Collection Date: 3/8/2019 07:00

Percent Moisture: 5.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 3/11/2019	PrepBy: LML
Diesel Range Organics	7.4	D	4.2	MG/KG	1	3/11/2019 16:42
Surr: O-TERPHENYL	87		49-114	%REC	1	3/11/2019 16:42
GC/MS Volatiles			SW8260		Prep Date: 3/8/2019	PrepBy: JXK
BENZENE	ND		0.0052	MG/KG	1	3/8/2019 15:40
TOLUENE	ND		0.0052	MG/KG	1	3/8/2019 15:40
ETHYLBENZENE	ND		0.0052	MG/KG	1	3/8/2019 15:40
M+P-XYLENE	ND		0.0052	MG/KG	1	3/8/2019 15:40
O-XYLENE	ND		0.0052	MG/KG	1	3/8/2019 15:40
Surr: DIBROMOFLUOROMETHANE	112		61-134	%REC	1	3/8/2019 15:40
Surr: TOLUENE-D8	98		57-135	%REC	1	3/8/2019 15:40
Surr: 4-BROMOFLUOROBENZENE	95		52-151	%REC	1	3/8/2019 15:40
GASOLINE RANGE ORGANICS	ND		0.52	MG/KG	1	3/8/2019 15:40

Client: Expedition Water Solutions

Date: 12-Mar-19

Project: EWS #6

Work Order: 1903124

Sample ID: EWS6-2

Lab ID: 1903124-2

Legal Location:

Matrix: SOIL

Collection Date: 3/8/2019 07:00

Percent Moisture: 3.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 3/11/2019	PrepBy: LML
Diesel Range Organics	ND		4.1	MG/KG	1	3/11/2019 17:47
Surr: O-TERPHENYL	86		49-114	%REC	1	3/11/2019 17:47
GC/MS Volatiles			SW8260		Prep Date: 3/8/2019	PrepBy: JXK
BENZENE	ND		0.0052	MG/KG	1	3/8/2019 16:05
TOLUENE	ND		0.0052	MG/KG	1	3/8/2019 16:05
ETHYLBENZENE	ND		0.0052	MG/KG	1	3/8/2019 16:05
M+P-XYLENE	ND		0.0052	MG/KG	1	3/8/2019 16:05
O-XYLENE	ND		0.0052	MG/KG	1	3/8/2019 16:05
Surr: DIBROMOFLUOROMETHANE	116		61-134	%REC	1	3/8/2019 16:05
Surr: TOLUENE-D8	98		57-135	%REC	1	3/8/2019 16:05
Surr: 4-BROMOFLUOROBENZENE	98		52-151	%REC	1	3/8/2019 16:05
GASOLINE RANGE ORGANICS	ND		0.52	MG/KG	1	3/8/2019 16:05

Client: Expedition Water Solutions

Date: 12-Mar-19

Project: EWS #6

Work Order: 1903124

Sample ID: EWS6-3

Lab ID: 1903124-3

Legal Location:

Matrix: SOIL

Collection Date: 3/8/2019 07:00

Percent Moisture: 13.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 3/11/2019	PrepBy: LML
Diesel Range Organics	3.7	J	4.6	MG/KG	1	3/11/2019 18:08
Surr: O-TERPHENYL	90		49-114	%REC	1	3/11/2019 18:08
GC/MS Volatiles			SW8260		Prep Date: 3/8/2019	PrepBy: JXK
BENZENE	ND		0.0057	MG/KG	1	3/8/2019 16:36
TOLUENE	ND		0.0057	MG/KG	1	3/8/2019 16:36
ETHYLBENZENE	ND		0.0057	MG/KG	1	3/8/2019 16:36
M+P-XYLENE	ND		0.0057	MG/KG	1	3/8/2019 16:36
O-XYLENE	ND		0.0057	MG/KG	1	3/8/2019 16:36
Surr: DIBROMOFLUOROMETHANE	111		61-134	%REC	1	3/8/2019 16:36
Surr: TOLUENE-D8	98		57-135	%REC	1	3/8/2019 16:36
Surr: 4-BROMOFLUOROBENZENE	90		52-151	%REC	1	3/8/2019 16:36
GASOLINE RANGE ORGANICS	ND		0.57	MG/KG	1	3/8/2019 16:36

Client: Expedition Water Solutions

Date: 12-Mar-19

Project: EWS #6

Work Order: 1903124

Sample ID: EWS6-4

Lab ID: 1903124-4

Legal Location:

Matrix: SOIL

Collection Date: 3/8/2019 07:00

Percent Moisture: 3.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 3/11/2019	PrepBy: LML
Diesel Range Organics	45	DM	4	MG/KG	1	3/11/2019 18:30
Surr: O-TERPHENYL	86		49-114	%REC	1	3/11/2019 18:30
GC/MS Volatiles			SW8260		Prep Date: 3/8/2019	PrepBy: JXK
BENZENE	ND		0.0051	MG/KG	1	3/8/2019 17:06
TOLUENE	ND		0.0051	MG/KG	1	3/8/2019 17:06
ETHYLBENZENE	ND		0.0051	MG/KG	1	3/8/2019 17:06
M+P-XYLENE	ND		0.0051	MG/KG	1	3/8/2019 17:06
O-XYLENE	ND		0.0051	MG/KG	1	3/8/2019 17:06
Surr: DIBROMOFLUOROMETHANE	113		61-134	%REC	1	3/8/2019 17:06
Surr: TOLUENE-D8	97		57-135	%REC	1	3/8/2019 17:06
Surr: 4-BROMOFLUOROBENZENE	96		52-151	%REC	1	3/8/2019 17:06
GASOLINE RANGE ORGANICS	ND		0.51	MG/KG	1	3/8/2019 17:06

Client: Expedition Water Solutions

Date: 12-Mar-19

Project: EWS #6

Work Order: 1903124

Sample ID: EWS6-5

Lab ID: 1903124-5

Legal Location:

Matrix: SOIL

Collection Date: 3/8/2019 07:00

Percent Moisture: 8.0

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 3/11/2019	PrepBy: LML
Diesel Range Organics	72	DM	4.3	MG/KG	1	3/11/2019 18:51
Surr: O-TERPHENYL	88		49-114	%REC	1	3/11/2019 18:51
GC/MS Volatiles			SW8260		Prep Date: 3/8/2019	PrepBy: JXK
BENZENE	ND		0.0054	MG/KG	1	3/8/2019 17:36
TOLUENE	ND		0.0054	MG/KG	1	3/8/2019 17:36
ETHYLBENZENE	ND		0.0054	MG/KG	1	3/8/2019 17:36
M+P-XYLENE	ND		0.0054	MG/KG	1	3/8/2019 17:36
O-XYLENE	ND		0.0054	MG/KG	1	3/8/2019 17:36
Surr: DIBROMOFLUOROMETHANE	112		61-134	%REC	1	3/8/2019 17:36
Surr: TOLUENE-D8	98		57-135	%REC	1	3/8/2019 17:36
Surr: 4-BROMOFLUOROBENZENE	94		52-151	%REC	1	3/8/2019 17:36
GASOLINE RANGE ORGANICS	ND		0.54	MG/KG	1	3/8/2019 17:36

Client: Expedition Water Solutions

Date: 12-Mar-19

Project: EWS #6

Work Order: 1903124

Sample ID: EWS6-C

Lab ID: 1903124-6

Legal Location:

Matrix: SOIL

Collection Date: 3/8/2019 07:00

Percent Moisture: 4.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			SW8015M		Prep Date: 3/11/2019	PrepBy: LML
Diesel Range Organics	13	DM	4.2	MG/KG	1	3/11/2019 19:13
Surr: O-TERPHENYL	87		49-114	%REC	1	3/11/2019 19:13
GC/MS Volatiles			SW8260		Prep Date: 3/8/2019	PrepBy: JXK
BENZENE	ND		0.0052	MG/KG	1	3/8/2019 18:06
TOLUENE	ND		0.0052	MG/KG	1	3/8/2019 18:06
ETHYLBENZENE	ND		0.0052	MG/KG	1	3/8/2019 18:06
M+P-XYLENE	ND		0.0052	MG/KG	1	3/8/2019 18:06
O-XYLENE	ND		0.0052	MG/KG	1	3/8/2019 18:06
Surr: DIBROMOFLUOROMETHANE	111		61-134	%REC	1	3/8/2019 18:06
Surr: TOLUENE-D8	97		57-135	%REC	1	3/8/2019 18:06
Surr: 4-BROMOFLUOROBENZENE	95		52-151	%REC	1	3/8/2019 18:06
GASOLINE RANGE ORGANICS	ND		0.52	MG/KG	1	3/8/2019 18:06

Client: Expedition Water Solutions

Date: 12-Mar-19

Project: EWS #6

Work Order: 1903124

Sample ID: EWS6-C

Lab ID: 1903124-6

Legal Location:

Matrix: SOIL

Collection Date: 3/8/2019 07:00

Percent Moisture: 4.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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Explanation of Qualifiers**Radiochemistry:**

- "Report Limit" is the MDC

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:

- gasoline

- JP-8

- diesel

- mineral spirits

- motor oil

- Stoddard solvent

- bunker C

ALS -- Fort Collins

Date: 3/12/2019 2:34:

Client: Expedition Water Solutions

QC BATCH REPORT

Work Order: 1903124

Project: EWS #6

Batch ID: HC190311-81-1

Instrument ID: FUELS-1

Method: SW8015M

LCS	Sample ID: HC190311-81			Units: MG/KG			Analysis Date: 3/11/2019 19:34					
Client ID:	Run ID: HC190311-8AA				Prep Date: 3/11/2019		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
Diesel Range Organics	62.1	4	62.5		99	81-129				20		
Surr: O-TERPHENYL	10.5		12.5		84	49-114						

MB	Sample ID: HC190311-81			Units: MG/KG			Analysis Date: 3/11/2019 16:20					
Client ID:	Run ID: HC190311-8AA				Prep Date: 3/11/2019		DF: 1					
Analyte	Result	ReportLimit									Qual	
Diesel Range Organics	ND	4										
Surr: O-TERPHENYL	10.3				82	49-114						

MS	Sample ID: 1903124-1			Units: MG/KG			Analysis Date: 3/11/2019 17:03					
Client ID: EWS6-1	Run ID: HC190311-8AA				Prep Date: 3/11/2019		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
Diesel Range Organics	71.3	4.15	64.8	7.4	99	81-129				20		
Surr: O-TERPHENYL	11.2		13		87	49-114						

MSD	Sample ID: 1903124-1			Units: MG/KG			Analysis Date: 3/11/2019 17:25					
Client ID: EWS6-1	Run ID: HC190311-8AA				Prep Date: 3/11/2019		DF: 1					
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
Diesel Range Organics	72.9	4.22	65.9	7.4	99	81-129		71.3	2	20		
Surr: O-TERPHENYL	11.7		13.2		89	49-114			5			

The following samples were analyzed in this batch:

1903124-1	1903124-2	1903124-3
1903124-4	1903124-5	1903124-6

Client: Expedition Water Solutions
 Work Order: 1903124
 Project: EWS #6

QC BATCH REPORT

Batch ID: **VL190308-2-1** Instrument ID: **HPV2** Method: **SW8260**

LCS	Sample ID: VL190308-2			Units: MG/KG			Analysis Date: 3/8/2019 11:05				
Client ID:	Run ID: VL190308-2A			Prep Date: 3/8/2019			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.037	0.005	0.04		92	73-126				30	
TOLUENE	0.035	0.005	0.04		87	71-127				30	
ETHYLBENZENE	0.0368	0.005	0.04		92	74-127				30	
M+P-XYLENE	0.0716	0.005	0.08		90	79-126				30	
O-XYLENE	0.0357	0.005	0.04		89	77-125				30	
Surr: DIBROMOFLUOROMETHANE	0.0569		0.05		114	61-134					
Surr: TOLUENE-D8	0.0478		0.05		96	57-135					
Surr: 4-BROMOFLUOROBENZENE	0.0487		0.05		97	52-151					

LCSD	Sample ID: VL190308-2			Units: MG/KG		Analysis Date: 3/8/2019 11:29					
Client ID:	Run ID: VL190308-2A			Prep Date: 3/8/2019				DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.0361	0.005	0.04		90	73-126		0.037	2	30	
TOLUENE	0.0331	0.005	0.04		83	71-127		0.035	5	30	
ETHYLBENZENE	0.0359	0.005	0.04		90	74-127		0.0368	2	30	
M+P-XYLENE	0.0696	0.005	0.08		87	79-126		0.0716	3	30	
O-XYLENE	0.0351	0.005	0.04		88	77-125		0.0357	2	30	
Surr: DIBROMOFLUOROMETHANE	0.0563		0.05		113	61-134			1		
Surr: TOLUENE-D8	0.0475		0.05		95	57-135			1		
Surr: 4-BROMOFLUOROBENZENE	0.0489		0.05		98	52-151			0		

MB		Sample ID: VL190308-2		Units: MG/KG		Analysis Date: 3/8/2019 15:16	
Client ID:		Run ID: VL190308-2A		Prep Date: 3/8/2019		DF: 1	
Analyte	Result	ReportLimit					Qual
BENZENE	ND	0.005					
TOLUENE	ND	0.005					
ETHYLBENZENE	ND	0.005					
M+P-XYLENE	ND	0.005					
O-XYLENE	ND	0.005					
Surr: DIBROMOFLUOROMETHANE	0.0565			113	61-134		
Surr: TOLUENE-D8	0.0492			98	57-135		
Surr: 4-BROMOFLUOROBENZENE	0.0491			98	52-151		

Client: Expedition Water Solutions
 Work Order: 1903124
 Project: EWS #6

QC BATCH REPORT

Batch ID: **VL190308-2-1** Instrument ID **HPV2** Method: **SW8260**

MS		Sample ID: 1903124-6			Units: MG/KG		Analysis Date: 3/8/2019 19:06				
Client ID: EWS6-C		Run ID: VL190308-2A			Prep Date: 3/8/2019			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.037	0.0052	0.0416	0.0052	89	73-126				30	
TOLUENE	0.0336	0.0052	0.0416	0.0052	81	71-127				30	
ETHYLBENZENE	0.035	0.0052	0.0416	0.0052	84	74-127				30	
M+P-XYLENE	0.068	0.0052	0.0832	0.0052	82	79-126				30	
O-XYLENE	0.035	0.0052	0.0416	0.0052	84	77-125				30	
Surr: DIBROMOFLUOROMETHANE	0.0579		0.052		111	61-134					
Surr: TOLUENE-D8	0.0505		0.052		97	57-135					
Surr: 4-BROMOFLUOROBENZENE	0.0499		0.052		96	52-151					

MSD		Sample ID: 1903124-6			Units: MG/KG		Analysis Date: 3/8/2019 19:36				
Client ID: EWS6-C		Run ID: VL190308-2A			Prep Date: 3/8/2019			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BENZENE	0.036	0.00518	0.0414	0.0052	87	73-126		0.037	3	30	
TOLUENE	0.0339	0.00518	0.0414	0.0052	82	71-127		0.0336	1	30	
ETHYLBENZENE	0.035	0.00518	0.0414	0.0052	84	74-127		0.035	0	30	
M+P-XYLENE	0.067	0.00518	0.0828	0.0052	81	79-126		0.068	1	30	
O-XYLENE	0.0348	0.00518	0.0414	0.0052	84	77-125		0.035	1	30	
Surr: DIBROMOFLUOROMETHANE	0.0569		0.0518		110	61-134			2		
Surr: TOLUENE-D8	0.0515		0.0518		100	57-135			2		
Surr: 4-BROMOFLUOROBENZENE	0.0496		0.0518		96	52-151			1		

The following samples were analyzed in this batch:

1903124-1	1903124-2	1903124-3
1903124-4	1903124-5	1903124-6

Client: Expedition Water Solutions
Work Order: 1903124
Project: EWS #6

QC BATCH REPORT

Batch ID: **VL190308-2-2** Instrument ID **HPV2** Method: **SW8260**

LCS	Sample ID: VL190308-5				Units: MG/KG		Analysis Date: 3/8/2019 13:54				
Client ID:		Run ID: VL190308-2A				Prep Date: 3/8/2019			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1.71	0.5	2		85	80-120				20	

LCSD	Sample ID: VL190308-5				Units: MG/KG		Analysis Date: 3/8/2019 14:28				
Client ID:	Run ID: VL190308-2A				Prep Date: 3/8/2019			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	2.11	0.5	2		106	80-120		1.71	21	20	+

MB		Sample ID: VL190308-2			Units: MG/KG		Analysis Date: 3/8/2019 15:16	
Client ID:		Run ID: VL190308-2A			Prep Date: 3/8/2019		DF: 1	
Analyte		Result	ReportLimit		Qual			
GASOLINE RANGE ORGANICS		ND	0.5					

The following samples were analyzed in this batch:

1903124-1	1903124-2	1903124-3
1903124-4	1903124-5	1903124-6