Tuesday, November 03, 2020

John Mahoney
Mahoney Environmental
1601 10th Ave.
Greeley, CO 80631

Re: ALS Workorder: 2010365
Project Name: GAIL #1
Project Number:

Dear Mr. Mahoney:

Four water samples were received from Mahoney Environmental, on 10/15/2020. The samples were scheduled for the following analyses:

GC/MS Volatiles
Total Extractable Petroleum Hydrocarbons (Diesel)
Total Volatile Petroleum Hydrocarbons (Gasoline)

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. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

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

Sincerely,

ALS Environmental
Katie M. OBrien
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

2010365

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

Due to an auto sampler/instrument malfunction, samples 2010365-1 thru -3 were analyzed one day out of holding time.

All acceptance criteria were met.

GRO:
The samples were analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH 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 C6 to C10.

All 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: 2010365
Client Name: Mahoney Environmental
Client Project Name: GAIL #1
Client Project Number:
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MW1	2010365-1		WATER	14-Oct-20	12:45
MW2	2010365-2		WATER	14-Oct-20	13:30
MW3	2010365-3		WATER	14-Oct-20	14:05
MW4	2010365-4		WATER	14-Oct-20	14:50

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

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

Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER #
2010365

TURNAROUND TIME	Standard	SAMPLER	John Mahoney	PAGE	1 of 1
SITE ID				DISPOSAL	BY LAB or RETURN
EDD FORMAT				PARAMETER/METHOD REQUEST FOR ANALYSIS	
PURCHASE ORDER				A	BTEX
BILL TO COMPANY				B	GRO
INVOICE ATTN TO				C	DRO
ADDRESS				D	
CITY / STATE / ZIP				E	
PHONE				F	
FAX				G	
E-MAIL				H	
				I	
				J	

PROJECT NAME	GAIL #1
PROJECT No.	
COMPANY NAME	MATHENEY ENVIRONMENTAL
SEND REPORT TO	John MATHENEY
ADDRESS	PO BOX 1358
CITY / STATE / ZIP	GREELEY CO, 80632
PHONE	970-381-5551
FAX	
E-MAIL	JMATHENEY2644@COMCAST.NET

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
1	MW1	W	10/14/20	12:45	9	HCL		2	2	2								
2	MW2	W	10/14/20	13:30	9	HCL		2	2	2								
3	MW3	W	10/14/20	14:05	9	HCL		2	2	2								
4	MW4	W	10/14/20	14:50	9	No PRES		2	2	2								

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

NOTES	12.0C
5 of 15	

REPORT LEVEL / QC REQUIRED	
	Summary (Standard QC)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw

PRESERVATION KEY	1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

Form 202r9

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	John Mahoney	John MATHENEY	10/15/20	1138
RECEIVED BY		Tyler Mosser	10/15/20	1138
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID: Mahoney Environmental Workorder No: 2010365

Project Manager: KMO Initials: TM Date: 10/15/20

1. Are airbills / shipping documents present and/or removable?	☑ Drop Off	☐ YES	☐ NO	
2. Are custody seals on **shipping** containers intact?	☑ NONE	☐ YES	☐ NO*	
3. Are custody seals on **sample** containers intact?	☑ NONE	☐ YES	☐ NO*	
4. Is there a COC (chain-of-custody) present?		☑ YES	☐ NO*	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		☑ YES	☐ NO*	
6. Are short-hold samples present?		☐ YES	☑ NO	
7. Are all samples within holding times for the requested analyses?		☑ YES	☐ NO*	
8. Were all sample containers received intact? (not broken or leaking)		☑ YES	☐ NO*	
9. Is there sufficient sample for the requested analyses?		☑ YES	☐ NO*	
10. Are samples in proper containers for requested analyses? (form 250, *Sample Handling Guidelines*)		☑ YES	☐ NO*	
11. Are all aqueous samples preserved correctly, if required?	☑ N/A	☐ YES	☐ NO*	
12. Were unpreserved samples pH checked, if required?	☑ N/A	☐ YES	☐ NO	
13. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm in diameter?	☐ N/A	☑ YES	☐ NO	
14. Were the samples shipped on ice?		☑ YES	☐ NO	
15. Were cooler temperatures measured at 0.1 - 6.0°C? IR gun used+: ☐ #3 ☑ #5	☐ Rad Only	☐ YES	☑ NO	

Cooler #: 1

Temperature (°C): 12.1

# of custody seals on cooler: 0

External mR/hr reading: -

Background mR/hr reading: 11

Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? (If no, see Form 008) ☑ N/A ☐ YES ☐ NO

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

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

If applicable, was the client contacted? ☐ YES ☐ N/A Contact Name Date:

Project Manager Signature / Date: 10/16/20

Form 201r30.xls
(06/04/2020)

+IR Gun #3, VWR SN 170647571
+IR Gun #5, VWR SN 192272629

Client:	Mahoney Environmental	**Date:**	*03-Nov-20*
Project:	GAIL #1	**Work Order:**	2010365
Sample ID:	MW1	**Lab ID:**	2010365-1
Legal Location:		**Matrix:**	WATER
Collection Date:	10/14/2020 12:45	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M**	Prep Date: **10/21/2020**		PrepBy: **ASZ**
Diesel Range Organics	**0.54**	J	**1**	**MG/L**	1	10/22/2020 12:59
Surr: O-TERPHENYL	*95*		*69-120*	*%REC*	1	10/22/2020 12:59
Gasoline Range Organics			**SW8015**	Prep Date: **10/20/2020**		PrepBy: **ASZ**
GASOLINE RANGE ORGANICS	ND		0.1	MG/L	1	10/20/2020 12:44
Surr: 2,3,4-TRIFLUOROTOLUENE	*90*		*80-120*	*%REC*	1	10/20/2020 12:44
GC/MS Volatiles			**SW8260_25**	Prep Date: **10/29/2020**		PrepBy: **TWK**
BENZENE	ND		1	UG/L	1	10/29/2020 05:44
ETHYLBENZENE	ND		1	UG/L	1	10/29/2020 05:44
M+P-XYLENE	ND		1	UG/L	1	10/29/2020 05:44
O-XYLENE	ND		1	UG/L	1	10/29/2020 05:44
TOLUENE	ND		1	UG/L	1	10/29/2020 05:44
Surr: 4-BROMOFLUOROBENZENE	*108*		*80-120*	*%REC*	1	10/29/2020 05:44
Surr: DIBROMOFLUOROMETHANE	*102*		*80-120*	*%REC*	1	10/29/2020 05:44
Surr: TOLUENE-D8	*98*		*80-120*	*%REC*	1	10/29/2020 05:44

Client:	Mahoney Environmental	**Date:**	*03-Nov-20*
Project:	GAIL #1	**Work Order:**	2010365
Sample ID:	MW2	**Lab ID:**	2010365-2
Legal Location:		**Matrix:**	WATER
Collection Date:	10/14/2020 13:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M**	Prep Date: **10/21/2020**		PrepBy: **ASZ**
Diesel Range Organics	**0.79**	J	**1**	**MG/L**	1	10/22/2020 13:21
Surr: O-TERPHENYL	*105*		*69-120*	*%REC*	1	10/22/2020 13:21
Gasoline Range Organics			**SW8015**	Prep Date: **10/20/2020**		PrepBy: **ASZ**
GASOLINE RANGE ORGANICS	ND		0.1	MG/L	1	10/20/2020 13:08
Surr: 2,3,4-TRIFLUOROTOLUENE	*91*		*80-120*	*%REC*	1	10/20/2020 13:08
GC/MS Volatiles			**SW8260_25**	Prep Date: **10/29/2020**		PrepBy: **TWK**
BENZENE	ND		1	UG/L	1	10/29/2020 06:04
ETHYLBENZENE	ND		1	UG/L	1	10/29/2020 06:04
M+P-XYLENE	ND		1	UG/L	1	10/29/2020 06:04
O-XYLENE	ND		1	UG/L	1	10/29/2020 06:04
TOLUENE	ND		1	UG/L	1	10/29/2020 06:04
Surr: 4-BROMOFLUOROBENZENE	*109*		*80-120*	*%REC*	1	10/29/2020 06:04
Surr: DIBROMOFLUOROMETHANE	*100*		*80-120*	*%REC*	1	10/29/2020 06:04
Surr: TOLUENE-D8	*100*		*80-120*	*%REC*	1	10/29/2020 06:04

Client:	Mahoney Environmental	**Date:**	*03-Nov-20*
Project:	GAIL #1	**Work Order:**	2010365
Sample ID:	MW3	**Lab ID:**	2010365-3
Legal Location:		**Matrix:**	WATER
Collection Date:	10/14/2020 14:05	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics		**SW8015M**		Prep Date: **10/21/2020**		PrepBy: **ASZ**
Diesel Range Organics	ND		1	MG/L	1	10/22/2020 14:26
Surr: O-TERPHENYL	*106*		*69-120*	*%REC*	1	10/22/2020 14:26
Gasoline Range Organics		**SW8015**		Prep Date: **10/20/2020**		PrepBy: **ASZ**
GASOLINE RANGE ORGANICS	ND		0.1	MG/L	1	10/20/2020 13:35
Surr: 2,3,4-TRIFLUOROTOLUENE	*82*		*80-120*	*%REC*	1	10/20/2020 13:35
GC/MS Volatiles		**SW8260_25**		Prep Date: **10/29/2020**		PrepBy: **TWK**
BENZENE	ND		1	UG/L	1	10/29/2020 06:24
ETHYLBENZENE	ND		1	UG/L	1	10/29/2020 06:24
M+P-XYLENE	ND		1	UG/L	1	10/29/2020 06:24
O-XYLENE	ND		1	UG/L	1	10/29/2020 06:24
TOLUENE	ND		1	UG/L	1	10/29/2020 06:24
Surr: 4-BROMOFLUOROBENZENE	*108*		*80-120*	*%REC*	1	10/29/2020 06:24
Surr: DIBROMOFLUOROMETHANE	*101*		*80-120*	*%REC*	1	10/29/2020 06:24
Surr: TOLUENE-D8	*97*		*80-120*	*%REC*	1	10/29/2020 06:24

Client: Mahoney Environmental **Date:** *03-Nov-20*
Project: GAIL #1 **Work Order:** 2010365
Sample ID: MW4 **Lab ID:** 2010365-4
Legal Location: **Matrix:** WATER
Collection Date: 10/14/2020 14:50 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Diesel Range Organics			**SW8015M**	Prep Date: **10/21/2020**		PrepBy: **ASZ**
Diesel Range Organics	**0.6**	J	**1**	**MG/L**	1	10/22/2020 14:47
Surr: O-TERPHENYL	*108*		*69-120*	*%REC*	1	10/22/2020 14:47
Gasoline Range Organics			**SW8015**	Prep Date: **10/20/2020**		PrepBy: **ASZ**
GASOLINE RANGE ORGANICS	ND		0.1	MG/L	1	10/20/2020 13:59
Surr: 2,3,4-TRIFLUOROTOLUENE	*91*		*80-120*	*%REC*	1	10/20/2020 13:59
GC/MS Volatiles			**SW8260_25**	Prep Date: **10/22/2020**		PrepBy: **TWK**
BENZENE	ND		1	UG/L	1	10/22/2020 19:46
ETHYLBENZENE	ND		1	UG/L	1	10/22/2020 19:46
M+P-XYLENE	ND		1	UG/L	1	10/22/2020 19:46
O-XYLENE	ND		1	UG/L	1	10/22/2020 19:46
TOLUENE	ND		1	UG/L	1	10/22/2020 19:46
Surr: 4-BROMOFLUOROBENZENE	*98*		*80-120*	*%REC*	1	10/22/2020 19:46
Surr: DIBROMOFLUOROMETHANE	*103*		*80-120*	*%REC*	1	10/22/2020 19:46
Surr: TOLUENE-D8	*97*		*80-120*	*%REC*	1	10/22/2020 19:46

Client:	Mahoney Environmental	**Date:**	*03-Nov-20*
Project:	GAIL #1	**Work Order:**	2010365
Sample ID:	MW4	**Lab ID:**	2010365-4
Legal Location:		**Matrix:**	WATER
Collection Date:	10/14/2020 14:50	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

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

Batch ID: **HC201020-61-1** Instrument ID **FUELS-1** Method: **SW8015**

LCS Sample ID: **HC201020-61** Units: **MG/L** Analysis Date: **10/20/2020 09:58**

Client ID: Run ID: **HC201020-61A** Prep Date: **10/20/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.442	0.1	0.5		88	80-120				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.1		0.1		100	80-120					

LCSD Sample ID: **HC201020-61** Units: **MG/L** Analysis Date: **10/21/2020 04:58**

Client ID: Run ID: **HC201020-61A** Prep Date: **10/20/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	0.48	0.1	0.5		96	80-120		0.442	8	20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0956		0.1		96	80-120			5		

MB Sample ID: **HC201020-61** Units: **MG/L** Analysis Date: **10/20/2020 10:21**

Client ID: Run ID: **HC201020-61A** Prep Date: **10/20/2020** DF: **1**

Analyte	Result	ReportLimit	%REC	Control Limit	Qual
GASOLINE RANGE ORGANICS	ND	0.1			
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0884		88	80-120	

The following samples were analyzed in this batch: 2010365-1 2010365-2 2010365-3 2010365-4

QC BATCH REPORT

Batch ID: **HC201021-81-1** Instrument ID **FUELS-1** Method: **SW8015M**

LCS Sample ID: **HC201021-81** Units: **MG/L** Analysis Date: **10/22/2020 11:11**

Client ID: Run ID: **HC201021-81A** Prep Date: **10/21/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	8.58	1.07	8.33		103	53-120				20	
Surr: O-TERPHENYL	1.59		1.67		95	69-120					

LCSD Sample ID: **HC201021-81** Units: **MG/L** Analysis Date: **10/22/2020 11:33**

Client ID: Run ID: **HC201021-81A** Prep Date: **10/21/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	8.92	1.07	8.33		107	53-120		8.58	4	20	
Surr: O-TERPHENYL	1.92		1.67		115	69-120			19		

MB Sample ID: **HC201021-81** Units: **MG/L** Analysis Date: **10/22/2020 10:50**

Client ID: Run ID: **HC201021-81A** Prep Date: **10/21/2020** DF: **1**

Analyte	Result	ReportLimit	Qual
Diesel Range Organics	ND	1.1	
Surr: O-TERPHENYL	1.92	115 69-120	

The following samples were analyzed in this batch: 2010365-1 2010365-2 2010365-3 2010365-4

QC BATCH REPORT

Batch ID: **VL201022-4A-2** Instrument ID **HPV4** Method: **SW8260_25**

LCS Sample ID: **VL201022-4** Units: **%REC** Analysis Date: **10/22/2020 15:20**

Client ID: Run ID: **VL201022-4A** Prep Date: **10/22/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.4		25		97	80-120					
Surr: DIBROMOFLUOROMETHANE	25.8		25		103	80-120					
Surr: TOLUENE-D8	23.6		25		95	80-120					
BENZENE	8.76	1	10		88	80-120				20	
ETHYLBENZENE	8.91	1	10		89	80-120				20	
M+P-XYLENE	19.9	1	20		100	80-120				20	
O-XYLENE	10.2	1	10		102	80-120				20	
TOLUENE	9.06	1	10		91	80-120				20	

LCSD Sample ID: **VL201022-4** Units: **%REC** Analysis Date: **10/22/2020 15:56**

Client ID: Run ID: **VL201022-4A** Prep Date: **10/22/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24		25		96	80-120			1		
Surr: DIBROMOFLUOROMETHANE	24.8		25		99	80-120			4		
Surr: TOLUENE-D8	23		25		92	80-120			3		
BENZENE	7.97	1	10		80	80-120		8.76	10	20	
ETHYLBENZENE	8.69	1	10		87	80-120		8.91	2	20	
M+P-XYLENE	18.5	1	20		92	80-120		19.9	8	20	
O-XYLENE	9.37	1	10		94	80-120		10.2	8	20	
TOLUENE	8.48	1	10		85	80-120		9.06	7	20	

MB Sample ID: **VL201022-4** Units: **%REC** Analysis Date: **10/22/2020 16:41**

Client ID: Run ID: **VL201022-4A** Prep Date: **10/22/2020** DF: **1**

Analyte	Result	ReportLimit	%REC	Control Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.1		96	80-120	
Surr: DIBROMOFLUOROMETHANE	25.1		100	80-120	
Surr: TOLUENE-D8	24.6		98	80-120	
BENZENE	ND	1			
ETHYLBENZENE	ND	1			
M+P-XYLENE	ND	1			
O-XYLENE	ND	1			
TOLUENE	ND	1			

The following samples were analyzed in this batch: 2010365-4

QC BATCH REPORT

Batch ID: **VL201029-3-1** Instrument ID **HPV3** Method: **SW8260_25**

LCS Sample ID: **VL201029-3** Units: **%REC** Analysis Date: **10/29/2020 02:15**

Client ID: Run ID: **VL201029-3A** Prep Date: **10/29/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.7		25		107	80-120					
Surr: DIBROMOFLUOROMETHANE	24.4		25		98	80-120					
Surr: TOLUENE-D8	24.6		25		98	80-120					
BENZENE	10.3	1	10		103	80-120				20	
ETHYLBENZENE	10.3	1	10		103	80-120				20	
M+P-XYLENE	20.3	1	20		102	80-120				20	
O-XYLENE	10.1	1	10		101	80-120				20	
TOLUENE	10.1	1	10		101	80-120				20	

LCSD Sample ID: **VL201029-3** Units: **%REC** Analysis Date: **10/29/2020 02:56**

Client ID: Run ID: **VL201029-3A** Prep Date: **10/29/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.2		25		105	80-120			2		
Surr: DIBROMOFLUOROMETHANE	25.2		25		101	80-120			3		
Surr: TOLUENE-D8	24.5		25		98	80-120			0		
BENZENE	10.5	1	10		105	80-120		10.3	2	20	
ETHYLBENZENE	10.4	1	10		104	80-120		10.3	1	20	
M+P-XYLENE	20.3	1	20		101	80-120		20.3	0	20	
O-XYLENE	10.3	1	10		103	80-120		10.1	3	20	
TOLUENE	10	1	10		100	80-120		10.1	1	20	

MB Sample ID: **VL201029-3** Units: **%REC** Analysis Date: **10/29/2020 03:37**

Client ID: Run ID: **VL201029-3A** Prep Date: **10/29/2020** DF: **1**

Analyte	Result	ReportLimit	%REC	Control Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.9		107	80-120	
Surr: DIBROMOFLUOROMETHANE	24.5		98	80-120	
Surr: TOLUENE-D8	24.5		98	80-120	
BENZENE	ND	1			
ETHYLBENZENE	ND	1			
M+P-XYLENE	ND	1			
O-XYLENE	ND	1			
TOLUENE	ND	1			

The following samples were analyzed in this batch: 2010365-1 2010365-2 2010365-3