

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
PC GAS UNIT #1-26
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
GW01	3/26/2020	42.4	<4.00	136	484	4.00	NA
MW01	10/10/2018	3,780	<20.0	1,720	64.4	2.88	94.64
	1/4/2019	1,690	<4.00	938	22.8	4.20	93.32
	4/1/2019	570	<4.00	231	<4.00	5.87	91.65
	7/12/2019	2,150	<4.00	425	<4.00	4.55	92.97
	10/3/2019	1,620	<4.00	795	<4.00	2.98	94.54
	1/13/2020	2,250	<50.0	1,240	<50.0	3.79	93.73
MW02	10/10/2018	7.68	<4.00	14.8	317	2.50	94.67
	1/4/2019	11.2	<1.00	12.8	37.3	3.84	93.33
	4/1/2019	26.5	<1.00	43.2	378	4.52	92.65
	7/12/2019	12.9	<1.00	17.7	<1.00	4.22	92.95
	10/3/2019	9.32	<4.00	4.92	<4.00	2.64	94.53
	1/13/2020	6.54	<1.00	<1.00	<1.00	3.46	93.71
MW03	10/10/2018	75.3	<4.00	606	2,720	3.11	94.69
	1/4/2019	38.2	<1.00	382	986	4.43	93.37
	4/1/2019	72.2	<4.00	485	1,350	5.13	92.67
	7/12/2019	64.4	<1.00	408	1,030	4.82	92.98
	10/3/2019	24.1	<4.00	277	194	3.21	94.59
	1/13/2020	28.9	<10.0	139	211	4.05	93.75
MW04	10/10/2018	<1.00	<1.00	<1.00	<1.00	2.44	94.67
	1/4/2019	<1.00	<1.00	<1.00	<1.00	3.77	93.34
	4/1/2019	<1.00	<1.00	<1.00	<1.00	4.43	92.68
	7/12/2019	<1.00	<1.00	<1.00	<1.00	9.12	87.99
	10/3/2019	<1.00	<1.00	<1.00	<1.00	2.58	94.53
	1/13/2020	<1.00	<1.00	<1.00	<1.00	3.36	93.75
MW05	10/10/2018	<4.00	<4.00	70.0	596	2.60	94.69
	1/4/2019	<1.00	<1.00	<1.00	3.28	3.95	93.34
	4/1/2019	<1.00	<1.00	2.21	16.4	4.61	92.68
	7/12/2019	<1.00	<1.00	<1.00	<1.00	5.32	91.97
	10/3/2019	<1.00	<1.00	<1.00	<1.00	2.73	94.56
	1/13/2020	<1.00	<1.00	<1.00	<1.00	3.55	93.74
MW06	10/10/2018	<4.00	<4.00	143	1,140	2.43	94.64
	1/4/2019	<1.00	<1.00	52.0	121	3.76	93.31
	4/1/2019	<1.00	<1.00	37.5	71.8	5.42	91.65



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WELD COUNTY, COLORADO
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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
	7/12/2019	<1.00	<1.00	<1.00	204	4.13	92.94
	10/3/2019	<1.00	<1.00	17.2	2.94	2.52	94.55
	1/13/2020	<1.00	<1.00	3.60	18.8	3.33	93.74
MW07	12/14/2018	3,620	<1.00	1,080	14,700	4.07	93.70
	1/4/2019	2,120	<1.00	50.0	8,880	4.53	93.24
	4/1/2019	436	<50.0	<50.0	2,410	5.12	92.65
	7/12/2019	163	<10.0	<10.0	33.2	4.84	92.93
	10/3/2019	1,770	<50.0	202	1,070	3.35	94.42
	1/13/2020	1,960	<4.00	173	1,240	4.09	93.68
MW08	12/14/2018	468	<1.00	151	2,690	4.31	94.71
	1/4/2019	1,590	<1.00	44.0	5,200	4.79	94.23
	4/1/2019	1,460	<50.0	250	3,840	5.39	93.63
	7/12/2019	1,990	<20.0	140	3,130	5.13	93.89
	10/3/2019	3,070	<50.0	376	3,260	3.53	95.49
	1/13/2020	2,830	<50.0	483	3,730	4.34	94.68
MW09	12/14/2018	41.6	<1.00	281	2,630	3.94	93.71
	1/4/2019	18.8	<1.00	18.8	720	4.31	93.34
	4/1/2019	13.4	<4.00	35.9	139	4.95	92.70
	7/12/2019	33.8	<1.00	107	271	4.69	92.96
	10/3/2019	27.7	<1.00	78.1	249	3.14	94.51
	1/13/2020	8.44	<4.00	<4.00	60.0	3.91	93.74
MW10	12/14/2018	<1.00	<1.00	<1.00	<1.00	3.10	93.66
	1/4/2019	<1.00	<1.00	<1.00	<1.00	3.44	93.32
	4/1/2019	<1.00	<1.00	<1.00	<1.00	4.12	92.64
	7/12/2019	<1.00	<1.00	<1.00	<1.00	3.81	92.95
	10/3/2019	<1.00	<1.00	<1.00	<1.00	2.29	94.47
	1/13/2020	<1.00	<1.00	<1.00	<1.00	3.06	93.70

Notes: COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

ft bgs - feet below ground surface

< - less than laboratory reporting limit

NA - not analyzed/not available

Excavation groundwater depth is approximate

NM - not measured

BOLD = Analytical result is in exceedance of COGCC Table 910-1 groundwater standards.





January 20, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - PC Gas Unit #1-26

Project Number - 014218069/WO #895382

Attached are your analytical results for KMG - PC Gas Unit #1-26 received by Origins Laboratory, Inc. January 13, 2020. This project is associated with Origins project number Y001158-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y001158-01	Water	January 13, 2020 11:30	01/13/2020 13:30
MW02	Y001158-02	Water	January 13, 2020 11:40	01/13/2020 13:30
MW03	Y001158-03	Water	January 13, 2020 11:50	01/13/2020 13:30
MW04	Y001158-04	Water	January 13, 2020 12:00	01/13/2020 13:30
MW05	Y001158-05	Water	January 13, 2020 12:10	01/13/2020 13:30
MW06	Y001158-06	Water	January 13, 2020 12:20	01/13/2020 13:30
MW07	Y001158-07	Water	January 13, 2020 12:30	01/13/2020 13:30
MW08	Y001158-08	Water	January 13, 2020 12:40	01/13/2020 13:30
MW09	Y001158-09	Water	January 13, 2020 12:50	01/13/2020 13:30
MW10	Y001158-10	Water	January 13, 2020 13:00	01/13/2020 13:30

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

ORIGINS
LABORATORY, INC

7001158

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger						
Project: KMG - PC Gas Unit #1-26		Project Number: 014218069WO #89538280						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	1/13/20	11:30	PB	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
02-001	MW02	Water		11:40		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
03-001	MW03	Water		11:50		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
04-001	MW04	Water		12:00		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
05-001	MW05	Water		12:10		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
06-001	MW06	Water		12:20		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
07-001	MW07	Water		12:30		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
08-001	MW08	Water		12:40		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
09-001	MW09	Water		12:50		40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
10-001	MW10	Water		13:00	V	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C

Temperature on Receipt: 11.4
Turn Around Time: ☐ 72-hr ☒ Standard ☐ 48-hr

Relinquished By: *[Signature]* Date / Time: 1/13/20 13:30
Received By: *[Signature]* Date / Time: 1-13-20 1330

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1001158

Client: LTE

Client Project ID: PC Gas Unit 1-26

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/13/2020

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

☒ Water

Other:

Cooler Number/Temperature: 1 / 11.4 °C / °C / °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/14/20

Origins Laboratory, Inc.

[Signature]

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW01

1/13/2020 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-01 (Water)

BTEX by EPA 8260D

Benzene	2250	50.0	ug/L	50	B0A1308	KDK	01/13/2020	01/14/2020	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	1240	50.0	"	"	"	KDK	"	"	
Xylenes, total	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	97.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW02

1/13/2020 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-02 (Water)

BTEX by EPA 8260D

Benzene	6.54	1.00	ug/L	1	B0A1308	KDK	01/13/2020	01/14/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.3 %	70-130			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW03

1/13/2020 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-03 (Water)

BTEX by EPA 8260D

Benzene	28.9	10.0	ug/L	10	B0A1308	KDK	01/13/2020	01/14/2020	
Toluene	ND	10.0	"	"	"	KDK	"	"	U
Ethylbenzene	139	10.0	"	"	"	KDK	"	"	
Xylenes, total	211	10.0	"	"	"	KDK	"	"	
Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW04

1/13/2020 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1308	KDK	01/13/2020	01/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW05

1/13/2020 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1308	KDK	01/13/2020	01/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW06

1/13/2020 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1308	KDK	01/13/2020	01/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	3.60	1.00	"	"	"	KDK	"	"	
Xylenes, total	18.8	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW07

1/13/2020 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-07 (Water)

BTEX by EPA 8260D

Benzene	1960	50.0	ug/L	50	B0A1308	ZZZ	01/13/2020	01/14/2020	
Toluene	ND	4.00	"	4	"	KDK	"	01/14/2020	U
Ethylbenzene	173	4.00	"	"	"	KDK	"	"	
Xylenes, total	1240	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW08

1/13/2020 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-08 (Water)

BTEX by EPA 8260D

Benzene	2830	50.0	ug/L	50	B0A1308	KDK	01/13/2020	01/14/2020	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	483	50.0	"	"	"	KDK	"	"	
Xylenes, total	3730	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW09

1/13/2020 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-09 (Water)

BTEX by EPA 8260D

Benzene	8.44	4.00	ug/L	4	B0A1308	KDK	01/13/2020	01/14/2020	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	60.0	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Sulzberger
Project Number: 014218069/WO #89538280
Project: KMG - PC Gas Unit #1-26

MW10

1/13/2020 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y001158-10 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0A1308	KDK	01/13/2020	01/14/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	98.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A1308 - EPA 5030B (Water)										
Blank (B0A1308-BLK1)					Prepared: 01/13/2020 Analyzed: 01/14/2020					
Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A1308 - EPA 5030B (Water)

LCS (B0A1308-BS1)

Prepared: 01/13/2020 Analyzed: 01/14/2020

Benzene	40.4	1.00	ug/L	50.0		80.8	70-130			
Toluene	43.3	1.00	"	50.0		86.5	70-130			
Ethylbenzene	41.8	1.00	"	50.0		83.5	70-130			
m,p-Xylene	84.9	2.00	"	100		84.9	70-130			
o-Xylene	43.5	1.00	"	50.0		87.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A1308 - EPA 5030B (Water)

Matrix Spike (B0A1308-MS1)		Source: Y001158-04			Prepared: 01/13/2020 Analyzed: 01/14/2020					
Benzene	41.4	1.00	ug/L	50.0	ND	82.8	70-130			
Toluene	46.5	1.00	"	50.0	ND	93.0	70-130			
Ethylbenzene	44.2	1.00	"	50.0	ND	88.4	70-130			
m,p-Xylene	90.2	2.00	"	100	ND	90.2	70-130			
o-Xylene	43.7	1.00	"	50.0	ND	87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0A1308 - EPA 5030B (Water)

Matrix Spike Dup (B0A1308-MSD1)		Source: Y001158-04			Prepared: 01/13/2020 Analyzed: 01/14/2020					
Benzene	41.4	1.00	ug/L	50.0	ND	82.9	70-130	0.121	20	
Toluene	46.9	1.00	"	50.0	ND	93.7	70-130	0.750	20	
Ethylbenzene	46.3	1.00	"	50.0	ND	92.6	70-130	4.66	20	
m,p-Xylene	94.2	2.00	"	100	ND	94.2	70-130	4.33	20	
o-Xylene	47.7	1.00	"	50.0	ND	95.5	70-130	8.86	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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