

**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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
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
	4/1/2020	2,140	<50.0	1,190	<50.0	3.92	93.60
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
	4/1/2020	12.5	<1.00	<1.00	<1.00	3.58	93.59
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
	4/1/2020	17.8	<4.00	28.6	194	4.18	93.62
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
	4/1/2020	<1.00	<1.00	<1.00	<1.00	3.48	93.63
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



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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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
	4/1/2020	<1.00	<1.00	<1.00	<1.00	3.66	93.63
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
	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
	4/1/2020	<1.00	<1.00	4.76	25.4	3.45	93.62
MW07	12/14/2018	<b>3,620</b>	<1.00	<b>1,080</b>	<b>14,700</b>	4.07	93.70
	1/4/2019	<b>2,120</b>	<1.00	50.0	<b>8,880</b>	4.53	93.24
	4/1/2019	<b>436</b>	<50.0	<50.0	<b>2,410</b>	5.12	92.65
	7/12/2019	<b>163</b>	<10.0	<10.0	33.2	4.84	92.93
	10/3/2019	<b>1,770</b>	<50.0	202	1,070	3.35	94.42
	1/13/2020	<b>1,960</b>	<4.00	173	1,240	4.09	93.68
	4/1/2020	<b>656</b>	<4.00	110	654	4.18	93.59
MW08	12/14/2018	<b>468</b>	<1.00	151	<b>2,690</b>	4.31	94.71
	1/4/2019	<b>1,590</b>	<1.00	44.0	<b>5,200</b>	4.79	94.23
	4/1/2019	<b>1,460</b>	<50.0	250	<b>3,840</b>	5.39	93.63
	7/12/2019	<b>1,990</b>	<20.0	140	<b>3,130</b>	5.13	93.89
	10/3/2019	<b>3,070</b>	<50.0	376	<b>3,260</b>	3.53	95.49
	1/13/2020	<b>2,830</b>	<50.0	483	<b>3,730</b>	4.34	94.68
	4/1/2020	<b>2,530</b>	<50.0	658	<b>4,930</b>	4.99	94.03
MW09	12/14/2018	<b>41.6</b>	<1.00	281	<b>2,630</b>	3.94	93.71
	1/4/2019	<b>18.8</b>	<1.00	18.8	720	4.31	93.34
	4/1/2019	<b>13.4</b>	<4.00	35.9	139	4.95	92.70
	7/12/2019	<b>33.8</b>	<1.00	107	271	4.69	92.96
	10/3/2019	<b>27.7</b>	<1.00	78.1	249	3.14	94.51
	1/13/2020	<b>8.44</b>	<4.00	<4.00	60.0	3.91	93.74
	4/1/2020	<b>8.23</b>	<1.00	<1.00	26.9	4.01	93.64
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



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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)
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>		
	4/1/2020	<1.00	<1.00	<1.00	<1.00	3.17	93.59

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

Corrected Relative GW Elev. is used when LNAPL is present.

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





April 08, 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. April 01, 2020. This project is associated with Origins project number Y004017-01.

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	Y004017-01	Water	April 1, 2020 12:36	04/01/2020 14:42
MW02	Y004017-02	Water	April 1, 2020 12:44	04/01/2020 14:42
MW03	Y004017-03	Water	April 1, 2020 12:52	04/01/2020 14:42
MW04	Y004017-04	Water	April 1, 2020 12:30	04/01/2020 14:42
MW05	Y004017-05	Water	April 1, 2020 12:08	04/01/2020 14:42
MW06	Y004017-06	Water	April 1, 2020 12:15	04/01/2020 14:42
MW07	Y004017-07	Water	April 1, 2020 11:45	04/01/2020 14:42
MW08	Y004017-08	Water	April 1, 2020 11:55	04/01/2020 14:42
MW09	Y004017-09	Water	April 1, 2020 12:00	04/01/2020 14:42
MW10	Y004017-10	Water	April 1, 2020 12:22	04/01/2020 14:42

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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

7004017

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: 014218069/WO #89538280						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM001	Water	4-1	1236	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
02-001	MM002	Water	4-1	1244	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
03-001	MM003	Water	4-1	1252	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
04-001	MM004	Water	4-1	1230	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
05-001	MM005	Water	4-1	1208	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
06-001	MM006	Water	4-1	1215	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
07-001	MM007	Water	4-1	1145	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
08-001	MM008	Water	4-1	1155	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
09-001	MM009	Water	4-1	1200	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C
10-001	MM010	Water	4-1	1222	AG	40mL Clear Vial Cool to 4°	3	BTEX by EPA 8260C

Temperature on Receipt:  
Turn Around Time:  
Same Day: ☐ 72-hr: ☒  
24-hr: ☐ Standard: ☐  
AS is: ☐

Relinquished By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Relinquished By: *Noelle Doyle* 4/1/20 1446  
Received By: *JB* 4/1/20 1447

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

Origins Work Order: Y004017

Sample Receipt Checklist

Client: LTE

Client Project ID: PC Gas #1-26

Checklist Completed by: JG

Date/time completed: 4/1/2020

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Airbill #: N/A

Cooler Number/Temperature: 1 5.1 °C /  °C /  °C (Describe)

Thermometer ID: T003

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

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			
Additional Comments (if any):				

<sup>(1)</sup>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) Jm

Date/Time Reviewed 4-2-20

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

## MW01

4/1/2020 12:36:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-01 (Water)

### BTEX by EPA 8260D

Benzene	2140	50.0	ug/L	50	B0D0202	ZZZ	04/02/2020	04/02/2020	
Toluene	ND	50.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	1190	50.0	"	"	"	ZZZ	"	"	
Xylenes, total	ND	50.0	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130			"	"	"
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

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

## MW02

4/1/2020 12:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-02 (Water)

### BTEX by EPA 8260D

Benzene	12.5	1.00	ug/L	1	B0D0202	ZZZ	04/02/2020	04/02/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.3 %	70-130			"	"	"
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130			"	"	"

Origins Laboratory, Inc.



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

MW03

4/1/2020 12:52:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y004017-03 (Water)

BTEX by EPA 8260D

Benzene	17.8	4.00	ug/L	4	B0D0202	ZZZ	04/02/2020	04/02/2020	
Toluene	ND	4.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	28.6	4.00	"	"	"	ZZZ	"	"	
Xylenes, total	194	4.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130	"	"	"
Surrogate: Toluene-d8	98.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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

## MW04

4/1/2020 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-04 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0202	ZZZ	04/02/2020	04/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130	"	"	"
Surrogate: Toluene-d8	99.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

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

## MW05

4/1/2020 12:08:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-05 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0202	ZZZ	04/02/2020	04/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130			"	"	"
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"

Origins Laboratory, Inc.



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4600 West 60th Avenue  
Arvada CO 80003

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

## MW06

4/1/2020 12:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-06 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0202	ZZZ	04/02/2020	04/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	4.76	1.00	"	"	"	ZZZ	"	"	
Xylenes, total	25.4	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130			"	"	"
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	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

## MW07

4/1/2020 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-07 (Water)

### BTEX by EPA 8260D

Benzene	656	4.00	ug/L	4	B0D0202	ZZZ	04/02/2020	04/02/2020	
Toluene	ND	4.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	110	4.00	"	"	"	ZZZ	"	"	
Xylenes, total	654	4.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"	

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Project: KMG - PC Gas Unit #1-26

## MW08

4/1/2020 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-08 (Water)

### BTEX by EPA 8260D

Benzene	2530	50.0	ug/L	50	B0D0202	ZZZ	04/02/2020	04/02/2020	
Toluene	ND	50.0	"	"	"	ZZZ	"	"	U
Ethylbenzene	658	50.0	"	"	"	ZZZ	"	"	
Xylenes, total	4930	50.0	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130			"	"	"	"
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	95.2 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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## MW09

4/1/2020 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-09 (Water)

### BTEX by EPA 8260D

Benzene	8.23	1.00	ug/L	1	B0D0202	ZZZ	04/02/2020	04/02/2020	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	26.9	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	"	

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Project: KMG - PC Gas Unit #1-26

## MW10

4/1/2020 12:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y004017-10 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0D0202	ZZZ	04/02/2020	04/02/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130			"	"	"
Surrogate: Toluene-d8	97.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	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 B0D0202 - EPA 5030B (Water)**

**Blank (B0D0202-BLK1)**

Prepared: 04/02/2020 Analyzed: 04/02/2020

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	58		"	62.5	92.6		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.2		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.4		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 B0D0202 - EPA 5030B (Water)

**LCS (B0D0202-BS1)**

Prepared: 04/02/2020 Analyzed: 04/02/2020

Benzene	47.0	1.00	ug/L	50.0		94.0	70-130			
Toluene	49.2	1.00	"	50.0		98.4	70-130			
Ethylbenzene	51.1	1.00	"	50.0		102	70-130			
m,p-Xylene	99.8	2.00	"	100		99.8	70-130			
o-Xylene	48.1	1.00	"	50.0		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

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Arvada CO 80003

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

**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 B0D0202 - EPA 5030B (Water)**

Matrix Spike (B0D0202-MS1)		Source: Y004017-04			Prepared: 04/02/2020 Analyzed: 04/02/2020					
Benzene	51.7	1.00	ug/L	50.0	ND	103	70-130			
Toluene	48.9	1.00	"	50.0	ND	97.8	70-130			
Ethylbenzene	51.6	1.00	"	50.0	ND	103	70-130			
m,p-Xylene	101	2.00	"	100	0.250	101	70-130			
o-Xylene	50.0	1.00	"	50.0	ND	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	70-130			

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

**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 B0D0202 - EPA 5030B (Water)**

Matrix Spike Dup (B0D0202-MSD1)		Source: Y004017-04			Prepared: 04/02/2020 Analyzed: 04/02/2020					
Benzene	47.6	1.00	ug/L	50.0	ND	95.3	70-130	8.16	20	
Toluene	53.5	1.00	"	50.0	ND	107	70-130	8.98	20	
Ethylbenzene	54.6	1.00	"	50.0	ND	109	70-130	5.63	20	
m,p-Xylene	107	2.00	"	100	0.250	107	70-130	5.91	20	
o-Xylene	52.4	1.00	"	50.0	ND	105	70-130	4.82	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.6	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	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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