

**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
	7/2/2020	1,730	<50.0	554	<50.0	4.23	93.29
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
	7/2/2020	5.87	<1.00	<1.00	5.75	3.88	93.29
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
	7/2/2020	27.8	<4.00	121	250	4.46	93.34
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
	7/2/2020	<1.00	<1.00	<1.00	<1.00	3.76	93.35
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



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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>		
	4/1/2019	<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
	4/1/2020	<1.00	<1.00	<1.00	<1.00	3.66	93.63
	7/2/2020	<1.00	<1.00	<1.00	5.87	3.95	93.34
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
	7/2/2020	<1.00	<1.00	22.9	138	3.71	93.36
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
	7/2/2020	<b>754</b>	<50.0	118	1,100	4.44	93.33
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
	7/2/2020	<b>1,490</b>	<50.0	214	<b>1,520</b>	4.70	94.32
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



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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	<b>8.23</b>	<1.00	<1.00	26.9	4.01	93.64
	7/2/2020	<b>15.0</b>	<1.00	1.08	<1.00	4.29	93.36
<hr/>							
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
	4/1/2020	<1.00	<1.00	<1.00	<1.00	3.17	93.59
	7/2/2020	<1.00	<1.00	<1.00	<1.00	3.46	93.30

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.



July 10, 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. July 02, 2020. This project is associated with Origins project number Y007035-01.

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	Y007035-01	Water	July 2, 2020 10:15	07/02/2020 13:16
MW02	Y007035-02	Water	July 2, 2020 10:38	07/02/2020 13:16
MW03	Y007035-03	Water	July 2, 2020 10:25	07/02/2020 13:16
MW04	Y007035-04	Water	July 2, 2020 10:50	07/02/2020 13:16
MW05	Y007035-05	Water	July 2, 2020 11:33	07/02/2020 13:16
MW06	Y007035-06	Water	July 2, 2020 11:20	07/02/2020 13:16
MW07	Y007035-07	Water	July 2, 2020 12:02	07/02/2020 13:16
MW08	Y007035-08	Water	July 2, 2020 11:52	07/02/2020 13:16
MW09	Y007035-09	Water	July 2, 2020 11:41	07/02/2020 13:16
MW10	Y007035-10	Water	July 2, 2020 11:05	07/02/2020 13:16

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

1007035

Page 1 of 1

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

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger		Project Number: 014218069/WO #89538280	
Project: KMG - PC Gas Unit #1-26		Sampled By		Container	
Number	Sample Identification	Matrix	Sample Date	Sample Time	Qty
01-001	MW01	Water	7-2	1015	3
02-001	MW02	Water	7-2	1038	3
03-001	MW03	Water	7-2	1025	3
04-001	MW04	Water	7-2	1050	3
05-001	MW05	Water	7-2	1133	3
06-001	MW06	Water	7-2	1120	3
07-001	MW07	Water	7-2	1202	3
08-001	MW08	Water	7-2	1152	3
09-001	MW09	Water	7-2	1141	3
10-001	MW10	Water	7-2	1105	3
				40mL Clear Vial Cool to 4°	BTEX by EPA 8260C
				40mL Clear Vial Cool to 4°	BTEX by EPA 8260C
				40mL Clear Vial Cool to 4°	BTEX by EPA 8260C
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				40mL Clear Vial Cool to 4°	BTEX by EPA 8260C
				40mL Clear Vial Cool to 4°	BTEX by EPA 8260C
				40mL Clear Vial Cool to 4°	BTEX by EPA 8260C

Temperature on Receipt:

Turn Around Time:

Same Day ☐ 72-hr ☒  
24-hr ☐ Standard ☐  
48-hr ☐

Relinquished By: *[Signature]* Date/Time: 07-02-13 1316

Received By: *[Signature]* Date/Time: 7/1/13 1316

Relinquished By: *[Signature]* Date/Time: 7/1/13 1316

Received By: *[Signature]* Date/Time: 7/1/13 1316

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

Origins Laboratory

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

Origins Work Order: Y007035 Sample Receipt Checklist

Client: LTE  
Client Project ID: KMG-PC Gas Unit #1-26  
Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Checklist Completed by: JS KDK  
Date/time completed: 07 / 02 / 2020

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐  
Cooler Number/Temperature: 1 / 10.1 °C / °C / °C / °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		Same Day
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: JS (Project Manager)

7-6-20  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jordan A. Merrill*

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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

7/2/2020 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-01 (Water)

### BTEX by EPA 8260D

Benzene	1730	50.0	ug/L	50	B0G0211	KDK	07/02/2020	07/07/2020	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	554	50.0	"	"	"	KDK	"	"	
Xylenes, total	ND	50.0	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	97.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.0 %	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

## MW02

7/2/2020 10:38:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-02 (Water)

### BTEX by EPA 8260D

Benzene	5.87	1.00	ug/L	1	B0G0211	KDK	07/02/2020	07/07/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	5.75	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

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Project: KMG - PC Gas Unit #1-26

## MW03

7/2/2020 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-03 (Water)

### BTEX by EPA 8260D

Benzene	27.8	4.00	ug/L	4	B0G0211	KDK	07/02/2020	07/07/2020	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	121	4.00	"	"	"	KDK	"	"	
Xylenes, total	250	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	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

## MW04

7/2/2020 10:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-04 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G0211	KDK	07/02/2020	07/07/2020	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	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	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

7/2/2020 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-05 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G0211	KDK	07/02/2020	07/07/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	5.87	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	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

## MW06

7/2/2020 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-06 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G0211	KDK	07/02/2020	07/07/2020	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	22.9	1.00	"	"	"	KDK	"	"	
Xylenes, total	138	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	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

7/2/2020 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-07 (Water)

### BTEX by EPA 8260D

Benzene	754	50.0	ug/L	50	B0G0211	KDK	07/02/2020	07/07/2020	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	118	50.0	"	"	"	KDK	"	"	
Xylenes, total	1100	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	"
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	"

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Arvada CO 80003

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Project: KMG - PC Gas Unit #1-26

## MW08

7/2/2020 11:52:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-08 (Water)

### BTEX by EPA 8260D

Benzene	1490	50.0	ug/L	50	B0G0211	KDK	07/02/2020	07/07/2020	
Toluene	ND	50.0	"	"	"	KDK	"	"	U
Ethylbenzene	214	50.0	"	"	"	KDK	"	"	
Xylenes, total	1520	50.0	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	"

Origins Laboratory, Inc.



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Project: KMG - PC Gas Unit #1-26

## MW09

7/2/2020 11:41:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-09 (Water)

### BTEX by EPA 8260D

Benzene	15.0	1.00	ug/L	1	B0G0211	KDK	07/02/2020	07/07/2020	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.08	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	

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Project: KMG - PC Gas Unit #1-26

## MW10

7/2/2020 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y007035-10 (Water)

### BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G0211	KDK	07/02/2020	07/07/2020	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	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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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 B0G0211 - EPA 5030B (Water)

Blank (B0G0211-BLK1)

Prepared: 07/02/2020 Analyzed: 07/06/2020

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	63		"	62.5	100		70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.5		70-130			

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Arvada CO 80003

Brian Sulzberger  
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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 B0G0211 - EPA 5030B (Water)

**LCS (B0G0211-BS1)**

Prepared: 07/02/2020 Analyzed: 07/06/2020

Benzene	49.1	1.00	ug/L	50.0		98.2	70-130			
Toluene	55.4	1.00	"	50.0		111	70-130			
Ethylbenzene	49.6	1.00	"	50.0		99.2	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	49.6	1.00	"	50.0		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

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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 B0G0211 - EPA 5030B (Water)**

Matrix Spike (B0G0211-MS1)		Source: Y007034-01			Prepared: 07/02/2020 Analyzed: 07/06/2020					
Benzene	51.8	1.00	ug/L	50.0	ND	104	70-130			
Toluene	59.0	1.00	"	50.0	ND	118	70-130			
Ethylbenzene	51.8	1.00	"	50.0	ND	104	70-130			
m,p-Xylene	106	2.00	"	100	ND	106	70-130			
o-Xylene	52.2	1.00	"	50.0	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	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
<b>Batch B0G0211 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B0G0211-MSD1)</b>			<b>Source: Y007034-01</b>		Prepared: 07/02/2020 Analyzed: 07/06/2020					
Benzene	50.8	1.00	ug/L	50.0	ND	102	70-130	2.11	20	
Toluene	58.2	1.00	"	50.0	ND	116	70-130	1.35	20	
Ethylbenzene	52.0	1.00	"	50.0	ND	104	70-130	0.405	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	2.04	20	
o-Xylene	50.4	1.00	"	50.0	ND	101	70-130	3.45	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	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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