

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
SMITH ELSIE GU #1
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE LP

						Depth Water/ (Product Thickness)	Relative GW Elev.
Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	(ft bgs)	(ft)
AMW01	5/27/2008	8,800	7,900	890	18,000	14.31	NA
	7/1/2008	8,300	6,700	680	12,000	14.30	NA
	1/13/2009	2,100	26	750	7,800	PVC Bent	NA
	AMW01 destroyed as of 4/20/2009						
AMW02	5/27/2008	Dry - Not Sampled				Dry	NA
	7/1/2008	Dry - Not Sampled				Dry	NA
	1/13/2009	Dry - Not Sampled				Dry	NA
	AMW02 destroyed as of 4/20/2009						
MW01	8/8/2014	Dry - Not Sampled				Dry	NA
	8/11/2014	Dry - Not Sampled				Dry	NA
	MW01 destroyed as of 11/26/2014						
MW02	8/8/2014	<1.0	<1.0	<1.0	<1.0	13.95	NA
	8/11/2014	<1.0	<1.0	<1.0	<1.0	15.98	NA
	MW02 destroyed as of 11/26/2014						
MW03	8/8/2014	<1.0	<1.0	<1.0	<1.0	19.22	NA
	8/11/2014	<1.0	<1.0	<1.0	<1.0	17.55	NA
	MW03 destroyed as of 11/26/2014						
MW04	8/8/2014	Dry - Not Sampled				Dry	NA
	8/11/2014	94.5	<4.0	31.9	762	19.20	NA
	11/26/2014	326	5.5	179	287	9.90	88.46
	1/22/2015	Surveyed - Not Sampled				12.88	88.11
	2/12/2015	431	<4.0	138	1,430	12.67	88.32
	5/22/2015	359	7.9	221	2,200	11.36	89.63
	8/25/2015	351	<4.0	238	182	11.42	89.57
	11/19/2015	533	<10.0	240	735	12.27	88.72
	2/12/2016	Not Found - Not Sampled				Not Found	NA
	5/18/2016	60.6	<4.0	<4.0	<4.0	8.11	92.88
	8/15/2016	60.6	<1.00	18.4	<1.00	10.74	90.25
	11/30/2016	21.1	<1.00	1.25	2.27	10.91	90.05
	2/10/2017	31.0	1.20	1.31	2.27	10.91	90.05
	5/3/2017	5.50	<1.00	<1.00	1.20	10.75	90.21
MW05	8/8/2014	Dry - Not Sampled				Dry	NA
	8/11/2014	Dry - Not Sampled				Dry	NA
	1/22/2015	Surveyed - Not Sampled				15.99	83.13
	2/12/2015	4,340	378	304	10,300	15.45	83.67
	5/22/2015	1,240	8.6	197	3,310	5.30	93.82



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	8/25/2015	2,570	<100	266	4,540	10.35	88.77
	11/19/2015	4,440	<50.0	486	8,030	12.22	86.90
	2/12/2016	846	<100	<100	1,760	6.56	92.56
	5/18/2016	735	<10.0	<10.0	166	5.80	93.32
	8/15/2016	2,610	5.52	556	2,840	11.05	88.07
	11/30/2016	6,310	<20.0	700	9,950	11.02	88.12
	2/10/2017	6,620	111	706	10,900	11.23	87.91
	5/3/2017	6,990	<50.0	782	10,800	10.99	88.15
<hr/>							
MW06	8/8/2014	Dry - Not Sampled				Dry	NA
	8/11/2014	Dry - Not Sampled				Dry	NA
	11/26/2014	530	<1.0	71.6	284	12.24	84.87
	1/22/2015	Surveyed - Not Sampled				15.78	83.88
	2/12/2015	466	<4.0	69.4	141	15.30	84.36
	5/22/2015	671	<1.0	159	352	9.07	90.59
	8/25/2015	1,440	<100	225	4,020	9.55	90.11
	11/19/2015	1,480	<50.0	309	4,380	11.08	88.58
	2/12/2016	784	<50.0	79.5	1,420	10.99	88.67
	5/18/2016	873	<10.0	189	2,380	6.02	93.64
	8/15/2016	1,470	<10.0	348	3,140	8.99	90.67
	11/30/2016	45.3	<10.0	661	50.8	10.38	89.29
	2/10/2017	781	<10.0	242	2,570	11.26	88.41
	5/3/2017	336	<20.0	196	1,040	11.76	87.91
<hr/>							
MW07	8/8/2014	Dry - Not Sampled				Dry	NA
	8/11/2014	Dry - Not Sampled				Dry	NA
	11/26/2014	7,330	994	836	12,200	8.47	90.05
	1/22/2015	Surveyed - Not Sampled				12.44	88.74
	2/12/2015	8,930	<100	1,220	22,600	12.72	88.46
	5/22/2015	8,830	85.4	1,070	15,600	13.82	87.36
	8/25/2015	10,100	<1000	1,250	18,400	11.18	90.00
	11/19/2015	9,470	<500	1,140	16,900	10.73	90.45
	2/12/2016	9,850	<100	1,010	15,300	12.42	88.76
	5/18/2016	1,700	<100	379	6,000	7.11	94.07
	8/15/2016	6,260	<50.0	862	12,800	9.12	92.06
	11/30/2016	7,760	<50.0	936	13,100	9.54	91.60
	2/10/2017	9,100	<50.0	1,090	15,700	10.84	90.30
	5/3/2017	9,010	<50.0	964	13,700	11.79	89.35
<hr/>							
MW08	8/8/2014	Dry - Not Sampled				Dry	NA
	8/11/2014	Dry - Not Sampled				Dry	NA
	11/26/2014	<1.0	<1.0	<1.0	<1.0	16.92	86.84



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Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	1/22/2015	Surveyed - Not Sampled				17.87	85.63
	2/12/2015	<1.0	<1.0	<1.0	<1.0	17.48	86.02
	5/22/2015	1.3	<1.0	<1.0	<1.0	16.45	87.05
	8/25/2015	<1.0	<1.0	<1.0	<1.0	13.09	90.41
	11/19/2015	1.0	<1.0	<1.0	<1.0	13.29	90.21
	2/12/2016	<1.0	<1.0	<1.0	<1.0	16.03	87.47
	5/18/2016	<1.0	<1.0	<1.0	<1.0	11.29	92.21
	8/15/2016	<1.00	<1.00	<1.00	<1.00	12.06	91.44
	11/30/2016	<1.00	<1.00	<1.00	<1.00	12.40	91.30
	2/10/2017	<1.00	<1.00	<1.00	<1.00	12.28	91.42
	5/3/2017	<1.00	<1.00	<1.00	<1.00	12.17	91.53
MW09	8/8/2014	6,280	7.3	1,940	26,500	11.23	NA
	8/11/2014	5,240	<20.0	1,640	23,500	11.28	NA
	11/26/2014	1,440	<100	685	9,920	9.80	89.11
	1/22/2015	Surveyed - Not Sampled				12.93	88.60
	2/12/2015	2,470	<50.0	1,070	17,000	12.77	88.76
	5/22/2015	1,240	<100	945	7,170	10.97	90.56
	8/25/2015	3,150	<20.0	451	10,500	10.38	91.15
	11/19/2015	2,850	<100	287	12,700	12.07	89.46
	2/12/2016	3,080	<100	499	12,800	11.94	89.59
	5/18/2016	3,870	<100	209	13,000	7.96	93.57
	8/15/2016	3,240	<100	622	12,300	9.33	92.20
	11/30/2016	732	<50.0	869	332	10.89	90.62
	2/10/2017	2,640	<50.0	508	12,800	11.09	90.42
	5/3/2017	2,490	<50.0	552	9,700	11.01	90.50
MW10	8/8/2014	Dry - Not Sampled				Dry	NA
	8/11/2014	Dry - Not Sampled				Dry	NA
	11/26/2014	1,420	106	706	8,710	10.27	89.11
	1/22/2015	Surveyed - Not Sampled				PVC Blocked	NA
	2/12/2015	Damaged - Not Sampled				PVC Blocked	NA
	5/22/2015	Damaged - Not Sampled				PVC Blocked	NA
	8/25/2015	Damaged - Not Sampled				PVC Blocked	NA
	11/19/2015	Damaged - Not Sampled				PVC Blocked	NA
	2/12/2016	Damaged - Not Sampled				PVC Blocked	NA
	5/18/2016	Damaged - Not Sampled				PVC Blocked	NA
	8/15/2016	Damaged - Not Sampled				PVC Blocked	NA
	11/30/2016	Damaged - Not Sampled				PVC Blocked	NA
	MW10 destroyed as of 2/10/2017						



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MW11	8/8/2014	7,920	2060	1,620	23,900	12.75	NA
	8/11/2014	8,120	1600	1,310	23,300	12.77	NA
	11/26/2014	2,490	<100	1,330	19,900	10.81	89.93
	1/22/2015	Surveyed - Not Sampled				13.59	88.64
	2/12/2015	4,280	264	982	14,800	13.40	88.83
	5/22/2015	2,850	<100	923	11,800	12.24	89.99
	8/25/2015	3,570	<50.0	656	8,790	11.98	90.25
	11/19/2015	3,980	<100	728	10,500	12.98	89.25
	2/12/2016	3,470	<100	561	9,190	12.76	89.47
	5/18/2016	<4.0	<4.0	<4.0	<4.0	9.46	92.77
	8/15/2016	1,830	11.0	117	2,310	11.25	90.98
	11/30/2016	2,880	21.2	302	4,610	11.66	90.58
	2/10/2017	3,600	49.2	486	7,200	11.51	90.73
	5/3/2017	766	<20.0	260	3,450	11.52	90.72
MW12	8/8/2014	5.5	<1.0	145	2,930	12.92	NA
	8/11/2014	16	<4.0	554	5,290	12.85	NA
	11/26/2014	8.1	<4.0	35.8	207	10.74	89.18
	1/22/2015	Surveyed - Not Sampled				13.66	88.92
	2/12/2015	2.1	<1.0	30.6	302	14.52	88.06
	5/22/2015	2.1	<1.0	2.5	7.5	12.33	90.25
	8/25/2015	4.5	<1.0	1.2	4.3	12.07	90.51
	11/19/2015	4.2	<1.0	103	258	13.01	89.57
	2/12/2016	8.9	<1.0	52.7	226	12.78	89.80
	5/18/2016	<4.0	<4.0	<4.0	<4.0	9.66	92.92
	8/15/2016	4.06	<1.00	7.82	8.38	10.98	91.60
	11/30/2016	<1.00	<1.00	<1.00	<1.00	11.39	91.19
	2/10/2017	1.88	<1.00	31.8	<1.00	11.25	91.33
	5/3/2017	<1.00	<1.00	6.72	<1.00	11.13	91.45
MW13	8/8/2014	<1.0	<1.0	<1.0	4.80	14.04	NA
	8/11/2014	<1.0	<1.0	<1.0	<1.0	14.07	NA
	11/26/2014	<1.0	<1.0	<1.0	<1.0	11.46	89.28
	1/22/2015	Surveyed - Not Sampled				14.39	89.07
	2/12/2015	<1.0	<1.0	<1.0	<1.0	14.21	89.25
	5/22/2015	<1.0	<1.0	<1.0	<1.0	13.40	90.06
	8/25/2015	<1.0	<1.0	<1.0	<1.0	13.07	90.39
	11/19/2015	<1.0	<1.0	<1.0	<1.0	13.72	89.74
	2/12/2016	<1.0	<1.0	<1.0	<1.0	13.61	89.85
	5/18/2016	<1.0	<1.0	<1.0	<1.0	10.99	92.47
	8/15/2016	<1.00	<1.00	<1.00	<1.00	12.23	91.23



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	11/30/2016	<1.00	<1.00	<1.00	<1.00	12.21	91.12
	2/10/2017	<1.00	<1.00	<1.00	<1.00	12.09	91.24
	5/3/2017	<1.00	<1.00	<1.00	<1.00	12.06	91.27
COGCC Allowable Levels		5	1000	700	1400		

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

NM - not measured

µg/L - micrograms per liter

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level

Excavation groundwater depth is approximate



May 09, 2017

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Smith Elsie #1

Project Number - KMG0590/WO#8855133

Attached are your analytical results for KMG - Smith Elsie #1 received by Origins Laboratory, Inc. May 03, 2017. This project is associated with Origins project number Y705076-01.

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: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW04	Y705076-01	Water	May 3, 2017 9:30	05/03/2017 16:20
MW05	Y705076-02	Water	May 3, 2017 9:35	05/03/2017 16:20
MW06	Y705076-03	Water	May 3, 2017 9:40	05/03/2017 16:20
MW07	Y705076-04	Water	May 3, 2017 9:45	05/03/2017 16:20
MW08	Y705076-05	Water	May 3, 2017 9:50	05/03/2017 16:20
MW09	Y705076-06	Water	May 3, 2017 9:55	05/03/2017 16:20
MW11	Y705076-07	Water	May 3, 2017 10:00	05/03/2017 16:20
MW12	Y705076-08	Water	May 3, 2017 10:05	05/03/2017 16:20
MW13	Y705076-09	Water	May 3, 2017 10:10	05/03/2017 16:20


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: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1



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

7705016

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger					
Project: KMG - Smith Elsie #1		Project Number: KMG0590/WO#88551335					
APC Contingent Phil Hamilton							
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MW04	Water	5/15/17	0930	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW05	Water	✓	0935	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW06	Water		0940	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW07	Water		0945	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW08	Water		0950	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW09	Water		0955	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
07-001	MW11	Water	✓	1000	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
08-001	MW12	Water		1005	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
09-001	MW13	Water		1010	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: *ALZ* Date / Time: 5/13/17 1620

Received By: *ALZ* Date / Time: 5-13-17 1620

Relinquished By: _____ Date / Time: _____

Received By: _____ Date / Time: _____

Temperature on Receipt: 58°C

Turn Around Time: ☐ 72-hr ☒ Standard

Same Day: ☐ 24-hr ☐ 48-hr

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7705076

Client: LT

Client Project ID: KMG - Smith Elsie #1

Checklist Completed by: Don Lee

Shipped Via: dh

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

Date/time completed: 5-4-12 1300

Airbill #: 4P

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

Cooler Number/Temperature: / 5.9 °C / °C / °C / °C (Describe)

Thermometer ID: 1003

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"/>			
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) Don Lee

Date/Time/Reviewed 5/5/12

Origins Laboratory, Inc.

Jefe Pellegrini

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: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW04

5/3/2017 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y705076-01 (Water)

BTEX by EPA 8260C

Benzene	5.50	1.00	ug/L	1	B7E0510	05/05/2017	05/05/2017	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	1.20	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW05
5/3/2017 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y705076-02 (Water)

BTEX by EPA 8260C

Benzene	6990	50.0	ug/L	50	B7E0510	05/05/2017	05/05/2017	
Toluene	ND	50.0	"	"	"	"	"	U
Ethylbenzene	782	50.0	"	"	"	"	"	
Xylenes, total	10800	50.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW06

5/3/2017 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y705076-03 (Water)

BTEX by EPA 8260C

Benzene	336	20.0	ug/L	20	B7E0510	05/05/2017	05/05/2017	
Toluene	ND	20.0	"	"	"	"	"	U
Ethylbenzene	196	20.0	"	"	"	"	"	
Xylenes, total	1040	20.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"
Surrogate: Toluene-d8	103 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114			"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW07

5/3/2017 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y705076-04 (Water)

BTEX by EPA 8260C

Benzene	9010	50.0	ug/L	50	B7E0510	05/05/2017	05/05/2017	
Toluene	ND	50.0	"	"	"	"	"	U
Ethylbenzene	964	50.0	"	"	"	"	"	
Xylenes, total	13700	50.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW08
5/3/2017 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y705076-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7E0510	05/05/2017	05/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW09

5/3/2017 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y705076-06 (Water)

BTEX by EPA 8260C

Benzene	2490	50.0	ug/L	50	B7E0510	05/05/2017	05/05/2017	
Toluene	ND	50.0	"	"	"	"	"	U
Ethylbenzene	552	50.0	"	"	"	"	"	
Xylenes, total	9700	50.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.9 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW11
5/3/2017 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y705076-07 (Water)

BTEX by EPA 8260C

Benzene	766	20.0	ug/L	20	B7E0510	05/05/2017	05/05/2017	
Toluene	ND	20.0	"	"	"	"	"	U
Ethylbenzene	260	20.0	"	"	"	"	"	
Xylenes, total	3450	20.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	103 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW12
5/3/2017 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y705076-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7E0510	05/05/2017	05/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	6.72	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	84-114			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

MW13
5/3/2017 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y705076-09 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7E0510	05/05/2017	05/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114			"	"	"	

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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7E0510 - EPA 5030B (Water)

Blank (B7E0510-BLK1)

Prepared: 05/05/2017 Analyzed: 05/05/2017

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	65		"	62.5	105		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.3		85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.7		84-114			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7E0510 - EPA 5030B (Water)										
LCS (B7E0510-BS1)					Prepared: 05/05/2017 Analyzed: 05/05/2017					
Benzene	47.8	1.00	ug/L	50.0		95.7	73.3-129			
Toluene	47.7	1.00	"	50.0		95.4	76.2-123			
Ethylbenzene	48.1	1.00	"	50.0		96.3	73.6-130			
m,p-Xylene	95.5	2.00	"	100		95.5	76.1-126			
o-Xylene	47.7	1.00	"	50.0		95.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	84-114			

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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7E0510 - EPA 5030B (Water)

Matrix Spike (B7E0510-MS1)		Source: Y705076-05			Prepared: 05/05/2017 Analyzed: 05/05/2017					
Benzene	49.5	1.00	ug/L	50.0	ND	99.0	74-130			
Toluene	49.9	1.00	"	50.0	ND	99.8	73-131			
Ethylbenzene	50.9	1.00	"	50.0	ND	102	76-132			
m,p-Xylene	100	2.00	"	100	ND	100	69-139			
o-Xylene	50.2	1.00	"	50.0	ND	100	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.3	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	84-114			

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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7E0510 - EPA 5030B (Water)

Matrix Spike Dup (B7E0510-MSD1)		Source: Y705076-05			Prepared: 05/05/2017 Analyzed: 05/05/2017					
Benzene	51.5	1.00	ug/L	50.0	ND	103	74-130	3.92	20	
Toluene	52.0	1.00	"	50.0	ND	104	73-131	4.06	20	
Ethylbenzene	52.8	1.00	"	50.0	ND	106	76-132	3.59	20	
m,p-Xylene	105	2.00	"	100	ND	105	69-139	4.31	20	
o-Xylene	52.1	1.00	"	50.0	ND	104	74-131	3.74	20	
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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

Brian Sulzberger
Project Number: KMG0590/WO#88551335
Project: KMG - Smith Elsie #1

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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