

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
FOUR WAY 1
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		
MW01	8/9/2016	<1.00	<1.00	1.42	<1.00	45.79	51.54
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.60	54.40
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.94	56.06
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.18	51.82
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.40	49.60
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.12	52.88
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.89	56.11
	7/5/2018	<1.00	<1.00	<1.00	<1.00	47.60	52.40
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.53	49.47
	1/4/2019	<1.00	<1.00	<1.00	<1.00	46.65	53.35
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	7/24/2019	<1.00	<1.00	<1.00	<1.00	45.15	52.18
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.29	50.04
	1/8/2020	<1.00	<1.00	<1.00	<1.00	43.44	53.89
	4/2/2020	<1.00	<1.00	<1.00	<1.00	39.97	57.36
	7/9/2020	<1.00	<1.00	<1.00	<1.00	46.09	51.24
	10/12/2020	<1.00	<1.00	<1.00	<1.00	49.15	48.18
	1/25/2021	<1.00	<1.00	<1.00	<1.00	46.09	51.24
MW02	8/9/2016	18.1	110	11.7	208	45.78	51.65
	1/16/2017	294	2,000	187	6,750	45.38	54.50
	4/12/2017	1,410	<20.0	848	33,500	43.75	56.13
	7/14/2017	526	7,200	902	22,500	48.13	51.75
	10/26/2017	Free Product - Not Sampled				50.20	49.68
	11/8/2017	<1.00	<1.00	<1.00	29.7	NM	NA
	1/2/2018	<1.00	<1.00	<1.00	4.52	46.92	52.96
	4/9/2018	46.7	59.0	3.65	512	43.68	56.20
	7/5/2018	24.5	24.2	<1.00	505	47.40	52.48
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.31	49.57
	1/4/2019	18.3	73.8	79.1	253	46.45	53.43
	4/5/2019	191	283	4.04	1,200	NM	NA
	7/24/2019	16.4	80.8	<4.00	316	39.17	58.26
	10/18/2019	<4.00	<4.00	<4.00	<4.00	47.28	50.15
	1/8/2020	23.6	72.4	<4.00	175	43.46	53.97
	4/2/2020	415	1,600	94.1	5,410	39.99	57.44
	7/9/2020	26.9	112	5.70	454	46.11	51.32
	10/12/2020	4.48	32.3	1.74	111	49.18	48.25
	1/25/2021	<1.00	<1.00	<1.00	2.56	46.09	51.34

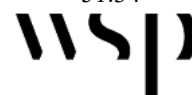


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KERR-MCGEE OIL & GAS ONSHORE, LP

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COGCC Allowable Levels		5	560	700	1400		
MW03	8/9/2016	<1.00	<1.00	<1.00	<1.00	46.35	51.69
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.82	54.52
	4/12/2017	<1.00	<1.00	<1.00	<1.00	44.18	56.16
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.41	51.93
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.64	49.70
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.36	52.98
	4/9/2018	<1.00	<1.00	<1.00	<1.00	44.12	56.22
	7/5/2018	<1.00	<1.00	<1.00	<1.00	47.84	52.50
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.76	49.58
	1/4/2019	<1.00	<1.00	<1.00	<1.00	46.90	53.44
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	7/24/2019	<1.00	<1.00	<1.00	<1.00	45.74	52.30
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.89	50.15
	1/8/2020	<1.00	<1.00	<1.00	<1.00	44.05	53.99
	4/2/2020	<1.00	<1.00	<1.00	<1.00	40.59	57.45
	7/9/2020	<1.00	<1.00	<1.00	<1.00	46.71	51.33
	10/12/2020	Insufficient Water - Not Sampled				49.72	48.32
	1/25/2021	<1.00	<1.00	<1.00	<1.00	46.70	51.34
MW04	8/9/2016	6.55	48.6	7.85	216	45.67	51.67
	1/16/2017	415	1,700	122	3,090	45.40	54.50
	4/12/2017	491	491	2,460	3,470	43.71	56.19
	7/14/2017	39.0	57.6	<20.0	183	47.92	51.98
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.16	49.74
	1/2/2018	3.51	25.7	1.68	52.6	46.90	53.00
	4/9/2018	12.4	26.4	<1.00	26.4	43.64	56.26
	7/5/2018	35.2	140	5.52	198	47.35	52.55
	10/12/2018	<1.00	<1.00	<1.00	1.42	50.27	49.63
	1/4/2019	52.2	160	6.73	300	46.43	53.47
	4/5/2019	168	177	<1.00	198	NM	NA
	7/24/2019	4.56	15.3	<4.00	14.2	45.00	52.34
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.13	50.21
	1/8/2020	110	565	23.5	964	43.32	54.02
	4/2/2020	88.1	75.7	<4.00	112	39.85	57.49
	7/9/2020	<4.00	<4.00	<4.00	<4.00	45.96	51.38
	10/12/2020	<1.00	1.06	<1.00	<1.00	49.04	48.30
	1/25/2021	<1.00	<1.00	<1.00	<1.00	45.96	51.38

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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		

MW05	8/9/2016	1.32	8.29	2.4	29.5	45.18	51.60
	1/16/2017	<1.00	<1.00	<1.00	<1.00	44.88	54.40
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.18	56.10
	7/14/2017	<1.00	<1.00	<1.00	1.03	47.44	51.84
	10/26/2017	<1.00	<1.00	<1.00	<1.00	49.67	49.61
	1/2/2018	<1.00	<1.00	<1.00	<1.00	46.40	52.88
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.14	56.14
	7/5/2018	<1.00	<1.00	<1.00	<1.00	46.84	52.44
	10/12/2018	<1.00	<1.00	<1.00	<1.00	49.79	49.49
	1/4/2019	<1.00	<1.00	<1.00	<1.00	45.93	53.35
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	7/24/2019	<1.00	<1.00	<1.00	<1.00	44.59	52.19
	10/18/2019	<1.00	<1.00	<1.00	<1.00	46.70	50.08
	1/8/2020	<1.00	<1.00	<1.00	<1.00	42.88	53.90
	4/2/2020	<1.00	<1.00	<1.00	<1.00	39.40	57.38
	7/9/2020	<1.00	<1.00	<1.00	21.7	45.52	51.26
	10/12/2020	<1.00	<1.00	<1.00	<1.00	49.30	47.48
	1/25/2021	<1.00	<1.00	<1.00	<1.00	45.51	51.27
MW06	8/9/2016	<1.00	<1.00	<1.00	<1.00	45.81	51.84
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.57	54.63
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.91	56.29
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.12	52.08
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.37	49.83
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.10	53.10
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.85	56.35
	7/5/2018	<1.00	<1.00	<1.00	<1.00	47.55	52.65
	10/12/2018	<1.00	<1.00	<1.00	<1.00	50.48	49.72
	1/4/2019	<1.00	<1.00	<1.00	<1.00	45.65	54.55
	4/5/2019	<1.00	<1.00	<1.00	<1.00	NM	NA
	7/24/2019	<1.00	<1.00	<1.00	<1.00	45.21	52.44
	10/18/2019	<1.00	<1.00	<1.00	<1.00	47.36	50.29
	1/8/2020	<1.00	<1.00	<1.00	<1.00	43.55	54.10
	4/2/2020	<1.00	<1.00	<1.00	<1.00	40.08	57.57
	7/9/2020	<1.00	<1.00	<1.00	<1.00	46.20	51.45
	10/12/2020	<1.00	<1.00	<1.00	<1.00	49.28	48.37

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COGCC Allowable Levels		5	560	700	1400		
	1/25/2021	<1.00	<1.00	<1.00	<1.00	46.21	51.44

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 915-1 groundwater standards.



July 16, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Four Way-62N65W/16SENW Project Number - 014216073/WO#890537

Attached are your analytical results for KMG - Four Way-62N65W/16SENW received by Origins Laboratory, Inc. July 09, 2020. This project is associated with Origins project number Y007130-01.

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: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEnw

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y007130-01	Water	July 9, 2020 11:45	07/09/2020 15:45
MW02	Y007130-02	Water	July 9, 2020 12:02	07/09/2020 15:45
MW03	Y007130-03	Water	July 9, 2020 12:25	07/09/2020 15:45
MW04	Y007130-04	Water	July 9, 2020 12:45	07/09/2020 15:45
MW05	Y007130-05	Water	July 9, 2020 13:04	07/09/2020 15:45
MW06	Y007130-06	Water	July 9, 2020 13:24	07/09/2020 15:45

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: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SENW

ORIGINS
LABORATORY, INC

Y007130

Page 1 of 1

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

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger
Project: KMG - Four Way-62N65W/16SENW Project Number: 014216073/WO#89053715

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	7-9-20	1145	AS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW02	Water	7-9-20	1202	AS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW03	Water	7-9-20	1225	AS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW04	Water	7-9-20	1245	AS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW05	Water	7-9-20	1304	AS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW06	Water	7-9-20	1324	AS	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: *[Signature]* Date / Time: 7/9/20 1545
Received By: *[Signature]* Date / Time: 7/9/20 1545

Temperature on Receipt: 9.7
Turn Around Time: Same Day: ☐ 24-hr: ☐ 48-hr: ☒ 72-hr: ☐ Standard: ☐

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
Project Number: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEnw

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y007130

Client: LTE

Client Project ID: Four Way 62N65W/16SEnw

Checklist Completed by: JG

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

Date/time completed: 7/10/20

Airbill #: NTA

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

Cooler Number/Temperature: 1, 9.7 °C 1 °C 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) Jm

Date/Time Reviewed 7-10-20

Origins Laboratory, Inc.

Jm

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

Brian Sulzberger
Project Number: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEW

MW01

7/9/2020 11:45:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y007130-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1005	ZZZ	07/10/2020	07/13/2020	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	95.0 %	70-130	"	"	"
Surrogate: Toluene-d8	91.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEW

MW02

7/9/2020 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y007130-02 (Water)

BTEX by EPA 8260D

Benzene	26.9	1.00	ug/L	1	B0G1005	ZZZ	07/10/2020	07/13/2020
Toluene	112	1.00	"	"	"	ZZZ	"	"
Ethylbenzene	5.70	1.00	"	"	"	ZZZ	"	"
Xylenes, total	454	1.00	"	"	"	ZZZ	"	"
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130			"	"		"
Surrogate: Toluene-d8	91.5 %	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: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEW

MW03

7/9/2020 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y007130-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1005	ZZZ	07/10/2020	07/13/2020	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	98.7 %	70-130	"	"	"
Surrogate: Toluene-d8	92.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEW

MW04

7/9/2020 12:45:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y007130-04 (Water)

BTEX by EPA 8260D

Benzene	ND	4.00	ug/L	4	B0G1005	ZZZ	07/10/2020	07/13/2020	U
Toluene	ND	4.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	4.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	4.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130	"	"	"
Surrogate: Toluene-d8	91.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

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: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SENW

MW05

7/9/2020 1:04:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y007130-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1005	ZZZ	07/10/2020	07/13/2020	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	21.7	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	89.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"

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: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEW

MW06

7/9/2020 1:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y007130-06 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B0G1005	ZZZ	07/10/2020	07/13/2020	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
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

101 % 70-130
88.7 % 70-130
102 % 70-130

" " "
" " "
" " "

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: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SENW

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 B0G1005 - EPA 5030B (Water)

Blank (B0G1005-BLK1)

Prepared: 07/10/2020 Analyzed: 07/13/2020

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	55		"	62.5	88.3		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.2		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.7		70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEnw

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 B0G1005 - EPA 5030B (Water)

LCS (B0G1005-BS1)

Prepared: 07/10/2020 Analyzed: 07/13/2020

Benzene	43.0	1.00	ug/L	50.0		86.0	70-130			
Toluene	51.1	1.00	"	50.0		102	70-130			
Ethylbenzene	48.9	1.00	"	50.0		97.8	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
o-Xylene	52.2	1.00	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.1	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SENW

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 B0G1005 - EPA 5030B (Water)

Matrix Spike (B0G1005-MS1)		Source: Y007122-02			Prepared: 07/10/2020 Analyzed: 07/13/2020					
Benzene	38.0	1.00	ug/L	50.0	0.260	75.4	70-130			
Toluene	47.4	1.00	"	50.0	ND	94.8	70-130			
Ethylbenzene	44.0	1.00	"	50.0	ND	88.0	70-130			
m,p-Xylene	90.2	2.00	"	100	ND	90.2	70-130			
o-Xylene	48.0	1.00	"	50.0	ND	96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.0	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEnw

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 B0G1005 - EPA 5030B (Water)

Matrix Spike Dup (B0G1005-MSD1)		Source: Y007122-02			Prepared: 07/10/2020 Analyzed: 07/13/2020					
Benzene	37.1	1.00	ug/L	50.0	0.260	73.6	70-130	2.45	20	
Toluene	46.5	1.00	"	50.0	ND	93.0	70-130	1.94	20	
Ethylbenzene	43.6	1.00	"	50.0	ND	87.3	70-130	0.822	20	
m,p-Xylene	90.2	2.00	"	100	ND	90.2	70-130	0.0776	20	
o-Xylene	45.9	1.00	"	50.0	ND	91.9	70-130	4.36	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

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: 014216073/WO#89053715
Project: KMG - Four Way-62N65W/16SEnw

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.

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.



October 19, 2020

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Four Way 1

Project Number - 014216073/GS9787

Attached are your analytical results for KMG - Four Way 1 received by Origins Laboratory, Inc. October 12, 2020. This project is associated with Origins project number Y010169-01.

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: 014216073/GS9787
Project: KMG - Four Way 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y010169-01	Water	October 12, 2020 11:45	10/12/2020 14:43
MW02	Y010169-02	Water	October 12, 2020 12:08	10/12/2020 14:43
MW04	Y010169-03	Water	October 12, 2020 13:22	10/12/2020 14:43
MW05	Y010169-04	Water	October 12, 2020 12:56	10/12/2020 14:43
MW06	Y010169-05	Water	October 12, 2020 13:37	10/12/2020 14:43

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: 014216073/GS9787
Project: KMG - Four Way 1

ORIGINS
LABORATORY, INC

Y010169

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

Page 1 of 1

Client: LT Environmental, Inc.		Project Manager: Brian Sulzberger						
Project: KMG - Four Way 1		Project Number: 01421607389053715						
Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW01	Water	10-12-20	1145	AE	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260D
02-001	MW02	Water	10-12-20	1208	AE	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260D
03-001	MW03	Water				40mL Amber VOA Vial - HC	3 0	BTEX by EPA 8260D
04-001	MW04	Water	10-12-20	1322	AE	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260D
05-001	MW05	Water	10-12-20	1256	AE	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260D
06-001	MW06	Water	10-12-20	1337	AE	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260D

Relinquished By: *[Signature]* 10/14/20 1443
Date / Time

Received By: *[Signature]* 10/12/20 1443
Date / Time

Temperature on Receipt: 4.8
Turn Around Time: ☒ 72-hr ☐ Standard
Same Day: ☐ 24-hr ☐ 48-hr

Origins Laboratory, Inc.

[Signature]

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: 014216073/GS9787
Project: KMG - Four Way 1

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y010169

Client: LTE

Client Project ID: Four Way 1

Checklist Completed by: JGKDK

Date/time completed: 10/13/20

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 4.8 °C 1 °C 1 °C 1 °C (Describe)

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (~ 1/4 inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<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: Jm (Project Manager)

10-14-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jm

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

Brian Sulzberger
Project Number: 014216073/GS9787
Project: KMG - Four Way 1

MW01

10/12/2020 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y010169-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	BOJ1301	KDK	10/13/2020	10/13/2020	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	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/GS9787
Project: KMG - Four Way 1

MW02

10/12/2020 12:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y010169-02 (Water)

BTEX by EPA 8260D

Benzene	4.48	1.00	ug/L	1	BOJ1301	KDK	10/13/2020	10/13/2020
Toluene	32.3	1.00	"	"	"	KDK	"	"
Ethylbenzene	1.74	1.00	"	"	"	KDK	"	"
Xylenes, total	111	1.00	"	"	"	KDK	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	99.3 %	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: 014216073/GS9787
Project: KMG - Four Way 1

MW04

10/12/2020 1:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y010169-03 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	BOJ1301	KDK	10/13/2020	10/13/2020	U
Toluene	1.06	1.00	"	"	"	KDK	"	"	
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	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: 014216073/GS9787
Project: KMG - Four Way 1

MW05

10/12/2020 12:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y010169-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	BOJ1301	KDK	10/13/2020	10/13/2020	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	110 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014216073/GS9787
Project: KMG - Four Way 1

MW06

10/12/2020 1:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y010169-05 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	BOJ1301	KDK	10/13/2020	10/13/2020	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	107 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 014216073/GS9787
Project: KMG - Four Way 1

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 B0J1301 - EPA 5030B (Water)

Blank (B0J1301-BLK1)

Prepared: 10/13/2020 Analyzed: 10/13/2020

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	66		"	62.5	106		70-130			
Surrogate: Toluene-d8	62		"	62.5	98.6		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	103		70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/GS9787
Project: KMG - Four Way 1

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 B0J1301 - EPA 5030B (Water)

LCS (B0J1301-BS1)

Prepared: 10/13/2020 Analyzed: 10/13/2020

Benzene	43.9	1.00	ug/L	50.0		87.7	70-130			
Toluene	45.6	1.00	"	50.0		91.1	70-130			
Ethylbenzene	44.6	1.00	"	50.0		89.1	70-130			
m,p-Xylene	89.9	2.00	"	100		89.9	70-130			
o-Xylene	43.3	1.00	"	50.0		86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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: 014216073/GS9787
Project: KMG - Four Way 1

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 B0J1301 - EPA 5030B (Water)

Matrix Spike (B0J1301-MS1)		Source: Y010167-01			Prepared: 10/13/2020 Analyzed: 10/13/2020					
Benzene	42.9	1.00	ug/L	50.0	ND	85.8	70-130			
Toluene	44.2	1.00	"	50.0	ND	88.3	70-130			
Ethylbenzene	43.7	1.00	"	50.0	ND	87.4	70-130			
m,p-Xylene	88.7	2.00	"	100	0.300	88.4	70-130			
o-Xylene	43.2	1.00	"	50.0	ND	86.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/GS9787
Project: KMG - Four Way 1

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 B0J1301 - EPA 5030B (Water)

Matrix Spike Dup (B0J1301-MSD1)		Source: Y010167-01			Prepared: 10/13/2020 Analyzed: 10/13/2020					
Benzene	43.3	1.00	ug/L	50.0	ND	86.7	70-130	1.04	20	
Toluene	43.9	1.00	"	50.0	ND	87.8	70-130	0.591	20	
Ethylbenzene	43.6	1.00	"	50.0	ND	87.2	70-130	0.229	20	
m,p-Xylene	88.4	2.00	"	100	0.300	88.1	70-130	0.407	20	
o-Xylene	43.5	1.00	"	50.0	ND	87.0	70-130	0.600	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014216073/GS9787
Project: KMG - Four Way 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.

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.



April 15, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Four Way 1

Project Number - 014216073

Attached are your analytical results for KMG - Four Way 1 received by Origins Laboratory, Inc. January 25, 2021. This project is associated with Origins project number Y101272-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y101272-01	Water	January 25, 2021 12:30	01/25/2021 17:02
MW02	Y101272-02	Water	January 25, 2021 12:40	01/25/2021 17:02
MW03	Y101272-03	Water	January 25, 2021 12:50	01/25/2021 17:02
MW04	Y101272-04	Water	January 25, 2021 13:00	01/25/2021 17:02
MW05	Y101272-05	Water	January 25, 2021 13:10	01/25/2021 17:02
MW06	Y101272-06	Water	January 25, 2021 13:20	01/25/2021 17:02

All analyses were removed from every sample except BTEX per Michael's email request on 04/15/2021. JAM

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

ORIGINS
LABORATORY, INC

Y101272

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

Client: WSP USA			Project Manager: Brian Sulzberger		
Project: KMG - Four Way 1			Project Number: 014216073		
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container
01-001	MW01	Water	1-25-21	1230	40mL Amber VOA Vial - HC 500 + 250 pph
02-001	MW02	Water		1240	40mL Amber VOA Vial - HC 500 + 250 pph
03-001	MW03	Water		1250	40mL Amber VOA Vial - HC 500 + 250 pph
04-001	MW04	Water		1300	40mL Amber VOA Vial - HC 500 + 250 pph
05-001	MW05	Water		1310	40mL Amber VOA Vial - HC 500 + 250 pph
06-001	MW06	Water		1320	40mL Amber VOA Vial - HC 500 + 250 pph

Analyses
BTEX only
F-11157
HIS

BTEX only per
Michael's email
on 4/15/21

Requisitioned By: *[Signature]*
Date / Time: 1-25-21 1702

Temperature on Receipt: 1.8

Turn Around Time:

Same Day ☐ 72-hr ☐

Relinquished By: *[Signature]*
Date / Time: 1/25/21 1702

Received By: *[Signature]*
Date / Time: 1/25/21 1702

Origins Laboratory, Inc.

[Signature]

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

Origins Laboratory

Origins Work Order: Y101272

Checklist Completed by: dm

Date/time completed: 1-27-21

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

Cooler Number/Temperature: 1 1.8 °C / °C / °C / °C (Describe)

Thermometer ID: T003

Sample Receipt Checklist

Client: WSP

Client Project ID: KMG-Fourway 1

Shipped Via: HTD

Airbill #: N/A

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 ≤ 5°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCL
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: dm (Project Manager)

Date/Time Reviewed: 1-27-21

Origins Laboratory, Inc.

Jordan A. Merrill

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

MW01

1/25/2021 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y101272-01 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1A2603	ZZZ	01/26/2021	01/27/2021	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130	"	"	"

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

MW02

1/25/2021 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.

Y101272-02 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1A2603	ZZZ	01/26/2021	01/27/2021	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	2.56	1.00	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4

95.9 %

70-130

"

"

"

Surrogate: Toluene-d8

99.5 %

70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

97.1 %

70-130

"

"

"

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

MW03

1/25/2021 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y101272-03 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1A2603	ZZZ	01/26/2021	01/27/2021	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130	"	"	"
Surrogate: Toluene-d8	98.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

MW04

1/25/2021 1:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y101272-04 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1A2603	ZZZ	01/26/2021	01/27/2021	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

MW05

1/25/2021 1:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y101272-05 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1A2603	ZZZ	01/26/2021	01/27/2021	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"
Surrogate: Toluene-d8	99.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	80.9 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

MW06

1/25/2021 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y101272-06 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1A2603	ZZZ	01/26/2021	01/27/2021	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

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 B1A2603 - EPA 5030B (Water)										
Blank (B1A2603-BLK1)					Prepared: 01/26/2021 Analyzed: 01/27/2021					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

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 B1A2603 - EPA 5030B (Water)

LCS (B1A2603-BS1)

Prepared: 01/26/2021 Analyzed: 01/27/2021

1,2,4-Trimethylbenzene	47.7	1.00	ug/L	50.0		95.4	70-130			
1,3,5-Trimethylbenzene	50.5	1.00	"	50.0		101	70-130			
Benzene	45.6	1.00	"	50.0		91.3	70-130			
Ethylbenzene	48.3	1.00	"	50.0		96.6	70-130			
m,p-Xylene	93.5	2.00	"	100		93.5	70-130			
Naphthalene	41.4	4.00	"	50.0		82.9	70-130			
o-Xylene	45.5	1.00	"	50.0		91.0	70-130			
Toluene	45.3	1.00	"	50.0		90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

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 B1A2603 - EPA 5030B (Water)

Matrix Spike (B1A2603-MS1)		Source: Y101272-01			Prepared: 01/26/2021 Analyzed: 01/27/2021					
1,2,4-Trimethylbenzene	44.5	1.00	ug/L	50.0	0.170	88.6	70-130			
1,3,5-Trimethylbenzene	43.3	1.00	"	50.0	ND	86.6	70-130			
Benzene	40.1	1.00	"	50.0	ND	80.2	70-130			
Ethylbenzene	41.9	1.00	"	50.0	ND	83.9	70-130			
m,p-Xylene	88.3	2.00	"	100	ND	88.3	70-130			
Naphthalene	37.6	4.00	"	50.0	1.20	72.7	70-130			
o-Xylene	43.6	1.00	"	50.0	ND	87.2	70-130			
Toluene	40.0	1.00	"	50.0	ND	80.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 1

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 B1A2603 - EPA 5030B (Water)

Matrix Spike Dup (B1A2603-MSD1)		Source: Y101272-01			Prepared: 01/26/2021 Analyzed: 01/27/2021					
1,2,4-Trimethylbenzene	45.4	1.00	ug/L	50.0	0.170	90.4	70-130	2.00	20	
1,3,5-Trimethylbenzene	43.8	1.00	"	50.0	ND	87.5	70-130	1.10	20	
Benzene	42.7	1.00	"	50.0	ND	85.4	70-130	6.35	20	
Ethylbenzene	43.6	1.00	"	50.0	ND	87.2	70-130	3.90	20	
m,p-Xylene	88.2	2.00	"	100	ND	88.2	70-130	0.113	20	
Naphthalene	39.3	4.00	"	50.0	1.20	76.2	70-130	4.53	20	
o-Xylene	42.7	1.00	"	50.0	ND	85.3	70-130	2.20	20	
Toluene	42.7	1.00	"	50.0	ND	85.5	70-130	6.50	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.7	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014216073

Project: KMG - Four Way 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.

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.