



August 25, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

**Project Name - KMG - Sekich 22-19**

**Project Number - 014215158**

Attached are your analytical results for KMG - Sekich 22-19 received by Origins Laboratory, Inc. August 24, 2015. This project is associated with Origins project number X508286-01.

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01 @ 6.5	X508286-01	Soil	August 24, 2015 13:10	08/24/2015 16:25
W02 @ 6.5	X508286-02	Soil	August 24, 2015 13:55	08/24/2015 16:25
S01 @ 6.5	X508286-04	Soil	August 24, 2015 13:20	08/24/2015 16:25
E01 @ 6.5	X508286-05	Soil	August 24, 2015 13:30	08/24/2015 16:25
N01 @ 6.5	X508286-06	Soil	August 24, 2015 13:40	08/24/2015 16:25

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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LT Environmental, Inc.  
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John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

www.originslaboratory.com

X508286

ORIGINS  
LABORATORY, INC

page | of |

Client: LTE  
Address: 4600 W 60th AVE  
ARVADA COLORADO 80003  
Telephone Number: 303-433-9188  
Email Address: JCocroft@LTEnv.com

Project Manager: John Cocroft  
Project Name: SEKICH 22-19  
Project Number: 014215158  
Samples Collected By: PZ

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa	Other	TPH	EC	FP		SP	
W01@ 6.5	8/24/15	1310	2	X					X				X	X	X	HOD SAC	1
W02@ 6.5		1355	2	X					X				X	X	X	HOD SAC	2
B901		1305	2	X					X							HOD. (H)	3
S01@ 6.5		1320	2	X					X				X	X	X	HOD SAC	4
F01@ 6.5		1330	2	X					X				X	X	X	HOD SAC	5
N01@ 6.5		1340	2	X					X				X	X	X	HOD SAC	6
																	7
																	8
																	9
																	10
Relinquished By: <u>[Signature]</u>	Date: <u>8/24/15</u>	Time: <u>1540</u>	Received By: <u>[Signature]</u>	Date: <u>8/24/15</u>	Time: <u>1540</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard											
Relinquished By: <u>[Signature]</u>	Date: <u>8/24/15</u>	Time: <u>1625</u>	Received By: <u>[Signature]</u>	Date: <u>8/24/15</u>	Time: <u>1625</u>												

Temp Received: 4.9 Date Results Needed: Tues Aug 25 8AM

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X508286

Client: LT Environmental

Client Project ID: Sekich 22-19

Checklist Completed by: Joe Henderson

Shipped Via: H/D

Date/time completed: 8/24/15 1658

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

Airbill #: 08

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

Cooler Number/Temperature: 1 / 9.9 °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 <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) Joe Henderson

Date/Time Reviewed 8/24/15

Origins Laboratory, Inc.

*Joe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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LT Environmental, Inc.  
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Arvada CO 80003

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

W01 @ 6.5

8/24/2015 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508286-01 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	5H24008	08/24/2015	08/24/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	0.007	0.002	"	"	"	"	"
Xylenes, total	0.079	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

**pH in Soil by EPA 9045D**

pH	8.20	pH Units	1	5H24013	08/24/2015	08/24/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.242	mmhos/cm	"	5H24014	"	08/24/2015
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**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5H24006	08/24/2015	08/25/2015
Diesel (C10-C28)	ND	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	61.7 %	65-146	"	"	"	"	"	S-DUP

Origins Laboratory, Inc.



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John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

W02 @ 6.5

8/24/2015 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508286-02 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.002	mg/kg	1	5H24008	08/24/2015	08/24/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	<b>0.006</b>	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

**pH in Soil by EPA 9045D**

pH	<b>8.49</b>	pH Units	1	5H24013	08/24/2015	08/24/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.166</b>	mmhos/cm	"	5H24014	"	08/24/2015
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**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5H24006	08/24/2015	08/25/2015
Diesel (C10-C28)	ND	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	69.6 %	65-146	"	"	"	"	"	"

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Arvada CO 80003

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Project: KMG - Sekich 22-19

S01 @ 6.5

8/24/2015 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508286-04 (Soil)**

**BTEX by EPA 8260C**

Benzene	0.058	0.050	mg/kg	25	5H24008	08/24/2015	08/24/2015
Toluene	0.062	0.050	"	"	"	"	"
Ethylbenzene	6.21	0.050	"	"	"	"	"
Xylenes, total	71.8	0.498	"	250	"	"	08/24/2015

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130	"	"	"
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	70-130	"	"	"

**pH in Soil by EPA 9045D**

pH	8.90	pH Units	1	5H24013	08/24/2015	08/24/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.303	mmhos/cm	"	5H24014	"	08/24/2015
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**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	940	8.4	25	mg/kg	1	5H24006	08/24/2015	08/24/2015
Diesel (C10-C28)	310	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	65.7 %	65-146	"	"	"	"	"	"

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## E01 @ 6.5

8/24/2015 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X508286-05 (Soil)

### BTEX by EPA 8260C

Benzene	ND	0.050	mg/kg	25	5H24008	08/24/2015	08/24/2015
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	104 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	70-130	"	"	"

### pH in Soil by EPA 9045D

pH	7.88	pH Units	1	5H24013	08/24/2015	08/24/2015
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.365	mmhos/cm	"	5H24014	"	08/24/2015
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### TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	24	8.4	25	mg/kg	1	5H24006	08/24/2015	08/25/2015
Diesel (C10-C28)	23	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	57.4 %	65-146	"	"	"	"	"	S-DUP

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Project: KMG - Sekich 22-19

N01 @ 6.5

8/24/2015 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508286-06 (Soil)**

**BTEX by EPA 8260C**

Benzene	ND	0.050	mg/kg	25	5H24008	08/24/2015	08/24/2015
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

**pH in Soil by EPA 9045D**

pH	9.07	pH Units	1	5H24013	08/24/2015	08/24/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.352	mmhos/cm	"	5H24014	"	08/24/2015
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**TPH-Carbon Chain by EPA Method 8015C**

Gasoline (C6-C10)	48	8.4	25	mg/kg	1	5H24006	08/24/2015	08/24/2015
Diesel (C10-C28)	24	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	85.6 %	65-146	"	"	"	"	"	"

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LT Environmental, Inc.  
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Arvada CO 80003

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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 5H24008 - EPA 5030 (soil)

Blank (5H24008-BLK1)

Prepared: 08/24/2015 Analyzed: 08/24/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5	103		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.8		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

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**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 5H24008 - EPA 5030 (soil)**

**Blank (5H24008-BLK2)**

Prepared: 08/24/2015 Analyzed: 08/24/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5	102		70-130			
Surrogate: Toluene-d8	61		"	62.5	96.9		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

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**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 5H24008 - EPA 5030 (soil)**

**LCS (5H24008-BS1)**

Prepared: 08/24/2015 Analyzed: 08/24/2015

Benzene	0.095	0.002	mg/kg	0.100		95.1	77.1-124			
Toluene	0.092	0.002	"	0.100		91.8	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		95.1	66.4-127			
m,p-Xylene	0.189	0.004	"	0.200		94.6	76.6-124			
o-Xylene	0.094	0.002	"	0.100		93.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Project: KMG - Sekich 22-19

**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
<b>Batch 5H24008 - EPA 5030 (soil)</b>										
<b>LCS (5H24008-BS2)</b>					Prepared: 08/24/2015 Analyzed: 08/24/2015					
Benzene	0.105	0.002	mg/kg	0.100		105	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.105	0.002	"	0.100		105	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.105	0.002	"	0.100		105	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

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**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 5H24008 - EPA 5030 (soil)

Matrix Spike (5H24008-MS1)		Source: X508246-04			Prepared: 08/24/2015 Analyzed: 08/24/2015					
Benzene	0.092	0.002	mg/kg	0.100	ND	91.7	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	86.2	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	88.0	62.2-130			
m,p-Xylene	0.175	0.004	"	0.200	ND	87.6	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	87.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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 5H24008 - EPA 5030 (soil)**

Matrix Spike (5H24008-MS2)		Source: X508246-09			Prepared: 08/24/2015 Analyzed: 08/24/2015					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130			
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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
<b>Batch 5H24008 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (5H24008-MSD1)</b>		<b>Source: X508246-04</b>			Prepared: 08/24/2015 Analyzed: 08/24/2015					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.2	71.8-126	3.77	11.3	
Toluene	0.090	0.002	"	0.100	ND	89.7	65.1-130	3.96	15.4	
Ethylbenzene	0.089	0.002	"	0.100	ND	89.2	62.2-130	1.35	19.6	
m,p-Xylene	0.178	0.004	"	0.200	ND	88.8	46.5-137	1.32	19.2	
o-Xylene	0.089	0.002	"	0.100	ND	89.1	54.2-134	1.61	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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
<b>Batch 5H24008 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (5H24008-MSD2)</b>		<b>Source: X508246-09</b>			Prepared: 08/24/2015 Analyzed: 08/24/2015					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	0.576	11.3	
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130	0.239	15.4	
Ethylbenzene	0.099	0.002	"	0.100	ND	99.4	62.2-130	2.15	19.6	
m,p-Xylene	0.198	0.004	"	0.200	ND	99.1	46.5-137	2.06	19.2	
o-Xylene	0.099	0.002	"	0.100	ND	99.1	54.2-134	1.68	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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Arvada CO 80003

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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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**Extractable Petroleum Hydrocarbons by 8015C - 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 5H24006 - EPA 3580**

**Blank (5H24006-BLK1)**

Prepared: 08/24/2015 Analyzed: 08/24/2015

Gasoline (C6-C10)	ND	50	mg/kg
Diesel (C10-C28)	ND	50	"
Residual Range Organics (C28-C36)	ND	200	"

Surrogate: o-Terphenyl

45.8

"

50.0

91.6

65-146

**LCS (5H24006-BS1)**

Prepared: 08/24/2015 Analyzed: 08/24/2015

Gasoline (C6-C10)	750	50	mg/kg	1000	74.8	66.7-119
Diesel (C10-C28)	800	50	"	1000	80.4	70.1-127
Residual Range Organics (C28-C36)	780	200	"	1000	77.5	54.5-139

Surrogate: o-Terphenyl

43.2

"

50.0

86.3

65-146

**Matrix Spike (5H24006-MS1)**

Source: X508262-01

Prepared: 08/24/2015 Analyzed: 08/24/2015

Gasoline (C6-C10)	930	50	mg/kg	1000	ND	93.1	56.4-132
Diesel (C10-C28)	980	50	"	1000	ND	98.0	57.4-138
Residual Range Organics (C28-C36)	1100	200	"	1000	ND	112	47.7-129

Surrogate: o-Terphenyl

47.5

"

50.0

95.0

65-146

**Matrix Spike Dup (5H24006-MSD1)**

Source: X508262-01

Prepared: 08/24/2015 Analyzed: 08/24/2015

**QM-07**

Gasoline (C6-C10)	730	50	mg/kg	1000	ND	73.4	56.4-132	23.6	22
Diesel (C10-C28)	740	50	"	1000	ND	74.1	57.4-138	27.8	18.3
Residual Range Organics (C28-C36)	760	200	"	1000	ND	75.5	47.7-129	38.9	30.1

Surrogate: o-Terphenyl

39.3

"

50.0

78.7

65-146

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5H24013 - NO PREP</b>										
<b>Duplicate (5H24013-DUP1)</b>		<b>Source: X508286-01</b>			Prepared: 08/24/2015 Analyzed: 08/24/2015					
pH	8.09		pH Units		8.20			1.35	25	
<b>Batch 5H24014 - NO PREP</b>										
<b>Blank (5H24014-BLK1)</b>		Prepared: 08/24/2015 Analyzed: 08/24/2015								
Specific Conductance (EC)	0.00240		mmhos/cm							
<b>Duplicate (5H24014-DUP1)</b>		<b>Source: X508286-01</b>			Prepared: 08/24/2015 Analyzed: 08/24/2015					
Specific Conductance (EC)	0.253		mmhos/cm		0.242			4.44	25	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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LT Environmental, Inc.  
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Arvada CO 80003

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

### Notes and Definitions

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



August 26, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Sekich 22-19**

**Project Number - 014215158**

Attached are your analytical results for KMG - Sekich 22-19 received by Origins Laboratory, Inc. August 25, 2015. This project is associated with Origins project number X508296-01.

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S02 @ 6.5'	X508296-01	Soil	August 25, 2015 13:20	08/25/2015 17:00
E02 @ 6.5'	X508296-02	Soil	August 25, 2015 13:30	08/25/2015 17:00
GW01	X508296-03	Water	August 25, 2015 13:40	08/25/2015 17:00

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

www.originslaboratory.com

X508296

**ORIGINS**  
LABORATORY, INC

page 1 of 1

Client: LTE  
Address: 4600 W 60th Ave.  
Telephone Number: 303.433.9788  
Email Address: Jcocroft@ltenv.com

Project Manager: John Cocroft  
Project Name: Sekich 22-19  
Project Number: 014215158  
Samples Collected By: KS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	As	Pb	
S0206.5'	8/25/15	13:20	2	X					X		X	X	X	Hold SAR
E0206.5'	↓	13:30	2	X					X		X	X	X	Hold SAR
G1001	↓	13:40	3	X				X			X			BTEX only

Date Results Needed 8/26/15 (0800)

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: X508296

Client: LTF

Client Project ID: Sekich 22-19

Checklist Completed by: Jeff Smith

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

Date/time completed: 8/25/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.4 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any): Kelly K. requested by phone conversation to change analyses on CAC to CBTEX, DRO/RO and remove BTEX, TPH.				
8/25/15 Jeff Smith				

<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.

Jeff Smith  
Reviewed by (Project Manager)

8/25/15  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jen Pellegrini*

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**S02 @ 6.5'**  
**8/25/2015 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508296-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	50	mg/kg	1	5H25009	08/25/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	65.6 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	147	5.00	mg/kg	25	5H25012	08/25/2015	08/25/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	ND	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	8.13		pH Units	1	5H25014	08/25/2015	08/25/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.139		mmhos/cm	"	5H25015	08/25/2015	08/25/2015
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Origins Laboratory, Inc.



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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**E02 @ 6.5'**  
**8/25/2015 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X508296-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	50	mg/kg	1	5H25009	08/25/2015	08/26/2015
Residual Range Organics (C28-C36)	ND	200	"	"	"	"	"

Surrogate: o-Terphenyl	61.8 %	59-131			"	"	"
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>36.0</b>	5.00	mg/kg	25	5H25012	08/25/2015	08/25/2015
Benzene	ND	0.050	"	"	"	"	"
Toluene	ND	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	"
Xylenes, total	<b>0.191</b>	0.050	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"

**pH in Soil by EPA 9045D**

pH	7.60		pH Units	1	5H25014	08/25/2015	08/25/2015
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.219</b>		mmhos/cm	"	5H25015	08/25/2015	08/25/2015
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

GW01

8/25/2015 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X508296-03 (Water)

BTEX by EPA 8260C

Benzene	45.7	4.0	ug/L	4	5H25006	08/25/2015	08/25/2015
Toluene	ND	4.0	"	"	"	"	"
Ethylbenzene	42.3	4.0	"	"	"	"	"
Xylenes, total	3090	20.0	"	20	"	"	08/25/2015

Surrogate: 1,2-Dichloroethane-d4	98.2 %	84-121			"	"	08/25/2015
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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 5H25006 - EPA 5030B (Water)**

**Blank (5H25006-BLK1)**

Prepared: 08/25/2015 Analyzed: 08/25/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.6		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.7		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.3		84-114			

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John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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 5H25006 - EPA 5030B (Water)**

**LCS (5H25006-BS1)**

Prepared: 08/25/2015 Analyzed: 08/25/2015

Benzene	55.6	1.0	ug/L	50.0	111	75-126
Toluene	54.2	1.0	"	50.0	108	78.7-126
Ethylbenzene	56.3	1.0	"	50.0	113	80-130
m,p-Xylene	112	2.0	"	100	112	77.2-133
o-Xylene	54.4	1.0	"	50.0	109	77.9-126
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	98.2	84-121
Surrogate: Toluene-d8	62		"	62.5	99.4	85-115
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100	84-114

Origins Laboratory, Inc.



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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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 5H25006 - EPA 5030B (Water)**

Matrix Spike (5H25006-MS1)		Source: X508274-01			Prepared: 08/25/2015 Analyzed: 08/25/2015					
Benzene	48.8	1.0	ug/L	50.0	ND	97.6	74-130			
Toluene	48.1	1.0	"	50.0	ND	96.2	73-131			
Ethylbenzene	49.7	1.0	"	50.0	ND	99.4	76-132			
m,p-Xylene	99.8	2.0	"	100	ND	99.8	69-139			
o-Xylene	51.3	1.0	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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

John Cocroft  
Project Number: 014215158  
Project: KMG - Sekich 22-19

**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 5H25006 - EPA 5030B (Water)**

Matrix Spike Dup (5H25006-MSD1)		Source: X508274-01			Prepared: 08/25/2015 Analyzed: 08/25/2015					
Benzene	51.3	1.0	ug/L	50.0	ND	103	74-130	5.02	20	
Toluene	49.6	1.0	"	50.0	ND	99.1	73-131	2.97	20	
Ethylbenzene	50.7	1.0	"	50.0	ND	101	76-132	1.95	20	
m,p-Xylene	100	2.0	"	100	ND	100	69-139	0.340	20	
o-Xylene	51.1	1.0	"	50.0	ND	102	74-131	0.391	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5H25012 - EPA 5030 (soil)**

**Blank (5H25012-BLK1)**

Prepared: 08/25/2015 Analyzed: 08/25/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	73.6		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	64.0		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66.2		"	62.5		106	70-130			

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**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
<b>Batch 5H25012 - EPA 5030 (soil)</b>										
<b>LCS (5H25012-BS1)</b>					Prepared: 08/25/2015 Analyzed: 08/25/2015					
Benzene	0.098	0.002	mg/kg	0.100		97.5	77.1-124			
Toluene	0.096	0.002	"	0.100		95.9	74.5-128			
Ethylbenzene	0.089	0.002	"	0.100		88.8	66.4-127			
m,p-Xylene	0.175	0.004	"	0.200		87.6	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	74.8		ug/kg	62.5		120	70-130			
Surrogate: Toluene-d8	64.1		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65.7		"	62.5		105	70-130			

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**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 5H25012 - EPA 5030 (soil)**

Matrix Spike (5H25012-MS1)		Source: X508290-01			Prepared: 08/25/2015 Analyzed: 08/25/2015					
Benzene	0.083	0.002	mg/kg	0.100	ND	82.9	71.8-126			
Toluene	0.078	0.002	"	0.100	ND	77.6	65.1-130			
Ethylbenzene	0.071	0.002	"	0.100	ND	70.8	62.2-130			
m,p-Xylene	0.143	0.004	"	0.200	ND	71.6	46.5-137			
o-Xylene	0.071	0.002	"	0.100	ND	71.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	76.3		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	64.4		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63.8		"	62.5		102	70-130			

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**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 5H25012 - EPA 5030 (soil)**

Matrix Spike Dup (5H25012-MSD1)		Source: X508290-01			Prepared: 08/25/2015 Analyzed: 08/25/2015					
Benzene	0.088	0.002	mg/kg	0.100	ND	87.7	71.8-126	5.56	11.3	
Toluene	0.082	0.002	"	0.100	ND	82.5	65.1-130	6.17	15.4	
Ethylbenzene	0.076	0.002	"	0.100	ND	76.0	62.2-130	7.14	19.6	
m,p-Xylene	0.152	0.004	"	0.200	ND	76.2	46.5-137	6.24	19.2	
o-Xylene	0.076	0.002	"	0.100	ND	76.3	54.2-134	6.78	17.9	
Surrogate: 1,2-Dichloroethane-d4	76.9		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	62.7		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	67.0		"	62.5		107	70-130			

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## 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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## Extractable Petroleum Hydrocarbons by 8015C - 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 5H25009 - EPA 3580

#### Blank (5H25009-BLK1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C36)	ND	200	"							
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			

#### LCS (5H25009-BS1)

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	900	50	mg/kg				64-121			
Residual Range Organics (C28-C36)	1000	200	"	1000		103	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.7	59-131			

#### Matrix Spike (5H25009-MS1)

Source: X508292-04

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	850	50	mg/kg		ND		53-125			
Residual Range Organics (C28-C36)	890	200	"	1000	ND	88.6	47-133			
Surrogate: o-Terphenyl	44		"	50.0		87.9	59-131			

#### Matrix Spike Dup (5H25009-MSD1)

Source: X508292-04

Prepared: 08/25/2015 Analyzed: 08/25/2015

Diesel (C10-C28)	870	50	mg/kg		ND		53-125	3.12	20	
Residual Range Organics (C28-C36)	900	200	"	1000	ND	89.5	47-133	1.05	20	
Surrogate: o-Terphenyl	40		"	50.0		79.9	59-131			

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## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5H25014 - NO PREP</b>										
<b>Duplicate (5H25014-DUP1)</b>		<b>Source: X508298-01</b>			Prepared: 08/25/2015 Analyzed: 08/25/2015					
pH	7.47		pH Units		8.30			10.5	25	
<b>Batch 5H25015 - NO PREP</b>										
<b>Blank (5H25015-BLK1)</b>		Prepared: 08/25/2015 Analyzed: 08/25/2015								
Specific Conductance (EC)	0.00300		mmhos/cm							
<b>Duplicate (5H25015-DUP1)</b>		<b>Source: X508298-01</b>			Prepared: 08/25/2015 Analyzed: 08/25/2015					
Specific Conductance (EC)	0.367		mmhos/cm		0.370			0.814	25	

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4600 West 60th Avenue

Arvada CO 80003

John Cocroft

Project Number: 014215158

Project: KMG - Sekich 22-19

### Notes and Definitions

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.



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Jen Pellegrini For Noelle Doyle Mathis, President