



May 2, 2016

Mr. Erik Mickelson  
Senior HSE Representative  
Kerr-McGee Oil & Gas Onshore LP  
501 North Division Boulevard  
Platteville, Colorado 80651

**RE: Sump Closure Report  
HSR-63N66W/13SEW  
API #05-123-13958  
Location ID #326972  
Remediation #8961  
SEW SEC 13-T3N-R66W  
Weld County, Colorado**

Dear Mr. Mickelson:

LT Environmental, Inc. (LTE) was contracted by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) to conduct environmental oversight activities at the above-referenced site. The oversight activities included field screening soil, collecting confirmation soil samples from the former sump location, documenting field activities, and reviewing laboratory analytical results.

The produced water sump was removed during tank battery excavation activities in response to a water dumpline release (Spill/Release Point ID 444847). The water dumpline release resulted in petroleum hydrocarbon impact to soil and groundwater. The petroleum hydrocarbon impacted soil was excavated to the south and west of the produced water sump prior to its removal. The objective of the soil sampling was to determine if additional petroleum hydrocarbon impacts to subsurface soil resulted from Kerr-McGee operating a produced water sump at the site. The soil sampling activities, laboratory analytical results, and conclusions are summarized below. The general site layout, excavation dimensions, and soil sample locations are depicted on the Excavation Site Map provided as Figure 1.

On March 17, 2016, following removal of the produced water sump, soil samples were collected from the northern and eastern sidewalls at an approximate depth of 5 feet below ground surface (bgs). A groundwater sample was not collected at the site as groundwater was known to be impacted as a result of the water dumpline release. The soil samples were field screened for volatile organic compounds using a photoionization detector (PID). LTE personnel did not observe soil staining, odor, or elevated (greater than 3.8 parts per million) PID headspace readings in any of the field soil samples. The soil samples collected from the northern and eastern sidewalls (N03@5' and E02@5') were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260C, total petroleum hydrocarbons (TPH) by USEPA Methods 8015C and 8260C, pH by USEPA Method 9045D, and specific conductance (EC) by USEPA Method 9050A. Laboratory



analytical results for confirmation soil samples N03@5' and E02@5' indicated that BTEX, TPH, pH, and EC levels were compliant with Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 allowable levels. Based on the soil sample analytical results and field observations, there is no indication the produced water sump contributed to subsurface soil or groundwater impacts at the site. The soil sample analytical results are summarized in Table 1 and the laboratory analytical report is attached.

The tank battery excavation extent that included the vacated sump location measured approximately 25 feet north to south by 35 feet east to west to an approximate depth of 8 feet bgs. Based on the analytical results, no additional soil was excavated to the north or east of the former produced water sump. The produced water sump at this facility has been permanently removed.

Please contact LTE at (303) 433-9788 if you have any questions regarding this Sump Closure Report or if you require additional information.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink, appearing to read 'Kristofer Shepherd', written in a cursive style.

Kristofer Shepherd  
Staff Geologist

A handwritten signature in blue ink, appearing to read 'Michael J. Furtaw', written in a cursive style.

Michael J. Furtaw, P.G.  
Project Geologist

Attachments

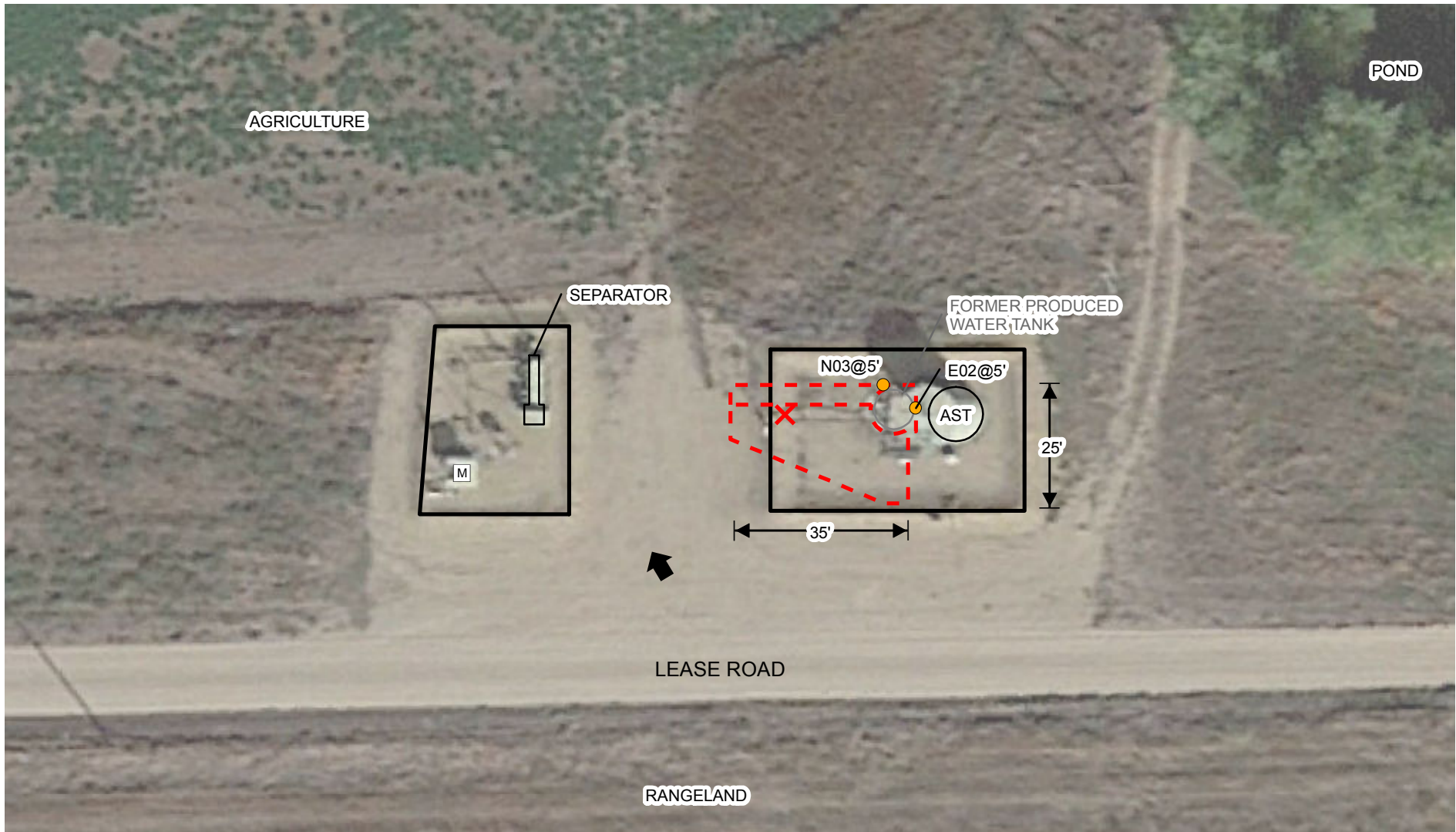


IMAGE COURTESY OF GOOGLE EARTH 2015

**LEGEND**

RELEASE LOCATION

SOIL SAMPLE

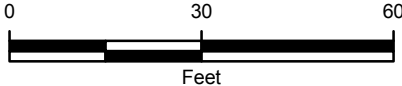
METER HOUSE

ESTIMATED GROUNDWATER FLOW DIRECTION

EXCAVATION EXTENT

BERM

AST: ABOVEGROUND STORAGE TANK



**FIGURE 1**  
**EXCAVATION SITE MAP**  
 HSR-63N66W/13SEW  
 SENW SEC 13-T3N-R66W  
 WELD COUNTY, COLORADO  
 KERR-MCGEE OIL & GAS ONSHORE LP



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**HSR-63N66W/13SENW**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)	pH (su)	Specific Conductance (mmhos/cm)
E02 @ 5'	5'	03/17/2016	<0.002	<0.002	<0.002	<0.002	<25	<0.200	<100	7.91	0.0316
N03 @ 5'	5'	03/17/2016	<0.002	<0.002	<0.002	<0.002	<25	<0.200	<100	8.28	0.0888
<b>COGCC Allowable Levels</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500*</b>	<b>500*</b>	<b>500*</b>	<b>6-9</b>	<b>4</b>

Notes: bgs - below ground surface  
COGCC - Colorado Oil and Gas Conservation Commission  
DRO - diesel range organics  
GRO - gasoline range organics  
mg/kg - milligrams per kilogram  
mmhos/cm - millimhos per centimeter

NA - not analyzed/not available  
ORO - oil range organics  
su - standard units  
\* - Standard applies to combined DRO-GRO-ORO  
< - less than laboratory reporting limit  
Bold indicates result exceeds allowable level



March 18, 2016

LT Environmental, Inc.

Mike Furtaw

4600 West 60th Avenue

Arvada CO 80003

Project Name - KMG - HSR 63N66W13SEW

Project Number - 014216034/0005/WO#89

Attached are your analytical results for KMG - HSR 63N66W13SEW received by Origins Laboratory, Inc. March 17, 2016. This project is associated with Origins project number X603230-01.

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



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

Mike Furtaw  
Project Number:  
614611001/0005/ALG/00000017  
Project: KMG - HSR 63N66W13SEW

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N03 @ 5'	X603230-01	Soil	March 17, 2016 11:55	03/17/2016 16:18
E02 @ 5'	X603230-02	Soil	March 17, 2016 12:00	03/17/2016 16:18

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.*

Noelle Doyle Mathis, President



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

Mike Furtaw  
 Project Number:  
 Project: KMG - HSR 63N66W13SENW

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X603230

Client: LTE

Client Project ID: HSR 63N66W13SENW

Checklist Completed by: Jeff Smith

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

Date/time completed: 3/18/16

Airbill #: 128

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>	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)?</sup>	X			
Was adequate sample volume provided <sup>(1)?</sup>	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>	X			pH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
<b>Additional Comments (if any):</b> Mike F. requested by phone conversation with Gale O. to change TAT from Standard to Same Day.				

<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)

3/18/16  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

Mike Furtaw  
 Project Number:  
 614611001/0005/AMG/00000017  
 Project: KMG - HSR 63N66W13SENW

N03 @ 5'  
 3/17/2016 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 X603230-01 (Soil)

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25	mg/kg	1	B6C1802	03/18/2016	03/18/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 95.6 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6C1801	03/18/2016	03/18/2016	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 113 % 70-130 " " "  
*Surrogate: Toluene-d8* 93.5 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 96.5 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.28		pH Units	1	B6C1803	03/18/2016	03/18/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0888		mmhos/cm	"	B6C1804	03/18/2016	"	
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Origins Laboratory, Inc.



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

Mike Furtaw  
 Project Number:  
 614611001/0005/AMG #00000017  
 Project: KMG - HSR 63N66W13SEnw

E02 @ 5'

3/17/2016 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 X603230-02 (Soil)

### DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25	mg/kg	1	B6C1802	03/18/2016	03/18/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	

*Surrogate: o-Terphenyl* 92.0 % 59-131 " " "

### GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6C1801	03/18/2016	03/18/2016	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 112 % 70-130 " " "

*Surrogate: Toluene-d8* 94.8 % 70-130 " " "

*Surrogate: 4-Bromofluorobenzene* 97.0 % 70-130 " " "

### pH in Soil by EPA 9045D

pH	7.91		pH Units	1	B6C1803	03/18/2016	03/18/2016	
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### Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0316		mmhos/cm	"	B6C1804	03/18/2016	"	
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Origins Laboratory, Inc.



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

Mike Furtaw  
 Project Number:  
 614611001/0005/1100 #00000017  
 Project: KMG - HSR 63N66W13SEnw

**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 B6C1801 - EPA 5030 (soil)

**Blank (B6C1801-BLK1)**

Prepared: 03/18/2016 Analyzed: 03/18/2016

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>78.9</i>		<i>ug/kg</i>	<i>62.5</i>		<i>126</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>58.8</i>		<i>"</i>	<i>62.5</i>		<i>94.1</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60.0</i>		<i>"</i>	<i>62.5</i>		<i>96.0</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Mike Furtaw  
 Project Number:  
 Project: KMG - HSR 63N66W13SENW

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 B6C1801 - EPA 5030 (soil)

LCS (B6C1801-BS1)

Prepared: 03/18/2016 Analyzed: 03/18/2016

Benzene	0.097	0.002	mg/kg	0.100		96.9	77.1-124			
Toluene	0.103	0.002	"	0.100		103	74.5-128			
Ethylbenzene	0.083	0.002	"	0.100		83.3	66.4-127			
m,p-Xylene	0.178	0.004	"	0.200		89.1	76.6-124			
o-Xylene	0.082	0.002	"	0.100		82.0	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63.4		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60.6		"	62.5		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	59.2		"	62.5		94.8	70-130			

Origins Laboratory, Inc.



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

Mike Furtaw  
 Project Number:  
 Project: KMG - HSR 63N66W13SENW

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 B6C1801 - EPA 5030 (soil)

Matrix Spike (B6C1801-MS1)	Source: X603230-02			Prepared: 03/18/2016 Analyzed: 03/18/2016						
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.181	0.002	"	0.100	ND	181	65.1-130			QM-07
Ethylbenzene	0.098	0.002	"	0.100	ND	97.8	62.2-130			
m,p-Xylene	0.227	0.004	"	0.200	ND	114	46.5-137			
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65.1		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60.3		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	60.1		"	62.5		96.2	70-130			

Origins Laboratory, Inc.



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

Mike Furtaw  
 Project Number:  
 614611001/0005/110/00000017  
 Project: KMG - HSR 63N66W13SENW

**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 B6C1801 - EPA 5030 (soil)

Matrix Spike Dup (B6C1801-MSD1)	Source: X603230-02			Prepared: 03/18/2016 Analyzed: 03/18/2016						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126	3.53	11.3	
Toluene	0.175	0.002	"	0.100	ND	175	65.1-130	3.42	15.4	QM-07
Ethylbenzene	0.092	0.002	"	0.100	ND	92.2	62.2-130	5.87	19.6	
m,p-Xylene	0.215	0.004	"	0.200	ND	108	46.5-137	5.40	19.2	
o-Xylene	0.095	0.002	"	0.100	ND	95.2	54.2-134	5.27	17.9	
Surrogate: 1,2-Dichloroethane-d4	65.8		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	59.7		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	59.8		"	62.5		95.6	70-130			

Origins Laboratory, Inc.



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

Mike Furtaw  
 Project Number:  
 614611001/0005/110/03000017  
 Project: KMG - HSR 63N66W13SENW

**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 B6C1802 - EPA 3580

**Blank (B6C1802-BLK1)**

Prepared: 03/18/2016 Analyzed: 03/18/2016

Diesel (C10-C28)	ND	50	mg/kg							
Residual Range Organics (C28-C40)	ND	200	"							
Surrogate: <i>o</i> -Terphenyl	56		"	50.0		112	59-131			

**LCS (B6C1802-BS1)**

Prepared: 03/18/2016 Analyzed: 03/18/2016

Diesel (C10-C28)	990	50	mg/kg	1000		98.9	64-121			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	58-124			
Surrogate: <i>o</i> -Terphenyl	52		"	50.0		104	59-131			

**Matrix Spike (B6C1802-MS1)**

Source: X603230-02

Prepared: 03/18/2016 Analyzed: 03/18/2016

Diesel (C10-C28)	910	50	mg/kg	1000	ND	91.5	53-125			
Residual Range Organics (C28-C40)	950	200	"	1000	ND	95.4	47-133			
Surrogate: <i>o</i> -Terphenyl	50		"	50.0		99.9	59-131			

**Matrix Spike Dup (B6C1802-MSD1)**

Source: X603230-02

Prepared: 03/18/2016 Analyzed: 03/18/2016

Diesel (C10-C28)	960	50	mg/kg	1000	ND	95.9	53-125	4.75	20	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	47-133	4.83	20	
Surrogate: <i>o</i> -Terphenyl	49		"	50.0		98.2	59-131			

Origins Laboratory, Inc.



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

Mike Furtaw  
 Project Number:  
 Project: KMG - HSR 63N66W13SENW

**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 B6C1803 - NO PREP</b>										
<b>Duplicate (B6C1803-DUP1)</b>		<b>Source: X603230-02</b>			<b>Prepared: 03/18/2016 Analyzed: 03/18/2016</b>					
pH	8.20		pH Units		7.91			3.60	25	
<b>Batch B6C1804 - NO PREP</b>										
<b>Blank (B6C1804-BLK1)</b>		<b>Prepared: 03/18/2016 Analyzed: 03/18/2016</b>								
Specific Conductance (EC)	0.00300		mmhos/cm							
<b>Duplicate (B6C1804-DUP1)</b>		<b>Source: X603230-02</b>			<b>Prepared: 03/18/2016 Analyzed: 03/18/2016</b>					
Specific Conductance (EC)	0.0344		mmhos/cm		0.0316			8.48	25	

Origins Laboratory, Inc.



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

Mike Furtaw  
Project Number:  
614611001/0005/110/0000017  
Project: KMG - HSR 63N66W13SENW

### Notes and Definitions

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 at a wet weight basis.

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President