



June 11, 2015

LT Environmental, Inc.

John Cocroft

4600 West 60th Avenue

Arvada CO 80003

**Project Name - KMG - HSR-Sharkey-64N67W
/35SWNE**

Project Number - 014215131

Attached are your analytical results for KMG - HSR-Sharkey-64N67W /35SWNE received by Origins Laboratory, Inc. June 09, 2015. This project is associated with Origins project number X506112-01.

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: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	X506112-01	Water	June 9, 2015 14:00	06/09/2015 17:05
N01 @ 2.5'	X506112-02	Soil	June 9, 2015 14:10	06/09/2015 17:05
S01 @ 2.5'	X506112-03	Soil	June 9, 2015 14:15	06/09/2015 17:05
E01 @ 2.5'	X506112-04	Soil	June 9, 2015 14:20	06/09/2015 17:05
W01 @ 2.5'	X506112-05	Soil	June 9, 2015 14:25	06/09/2015 17:05

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

ORIGINS

LABORATORY, INC

XS06112

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page 1 of 1

Client: TEANUS COMM
 Address: 4600 W 60TH AVE
ARAPAHO 80003
 Telephone Number: 303-453-9786
 Email Address: TCORLAB@TEANUS.COM

Project Manager: John Corbett
 Project Name: Shakey 7-35 - Summary
 Project Number: 0142-15131
 Samples Collected By: Ryan Zearis

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
QW01	6/9/15	1400	3	X				X						1
N01 @ 2.5'		1410	2	X				X						
S01 @ 2.5'	9/10/15	1415	2	X				X						HOLD SAG, BICENTHREE PH
E01 @ 2.5'		1420	2	X				X						HOLD SAG, BICENTHREE PH
W01 @ 2.5'	✓	1425	2	X				X						HOLD SAG, BICENTHREE PH
B01 20p		1435	2	X				X						HOLD SAG, BICENTHREE PH
														6
														7
														8
														9
														10
Requisitioned By: <u>R. Zearis</u>	Date: <u>6/9/15</u>	Time: <u>1600</u>	Received By: <u>[Signature]</u>	Date: <u>6/9/15</u>	Time: <u>1705</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard								
Requisitioned By: <u>[Signature]</u>	Date: <u>4/9/15</u>	Time: <u>1405</u>	Received By: <u>[Signature]</u>	Date: <u>6/9/15</u>	Time: <u>1600</u>									

Date Results Needed

Temp Received: 41.4

Origins Laboratory, Inc.

Jeff Pelligrini

Jen Pellegrini For Noelle Doyle Mathis, President

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John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X50612

Client: LTE

Client Project ID: Sharkey 7-35 Simp

Checklist Completed by: JH Smith

Shipped Via: H&D

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

Date/time completed: 6/9/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 14.4 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) JH Smith

Date/Time Reviewed 6/9/15

Origins Laboratory, Inc.

Jen Pellegrini

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: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

GW01

6/9/2015 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X506112-01 (Water)

BTEX by EPA 8260C

Benzene	66.5	1.0	ug/L	1	5F09009	06/09/2015	06/09/2015
Toluene	101	1.0	"	"	"	"	"
Ethylbenzene	19.8	1.0	"	"	"	"	"
Xylenes, total	238	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	87.3-113	"	"	"
Surrogate: Toluene-d8	105 %	90.9-108	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	88.6-111	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

N01 @ 2.5'

6/9/2015 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X506112-02 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5F09010	06/09/2015	06/10/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130	"	"	"

pH in Soil by EPA 9045D

pH	8.09	pH Units	1	5F09013	06/09/2015	06/09/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0974	mmhos/cm	"	5F09014	06/09/2015	06/09/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5F09006	06/09/2015	06/09/2015
Diesel (C10-C28)	9.9	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	83.7 %	65-146	"	"	"	"	"	"

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

S01 @ 2.5'

6/9/2015 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X506112-03 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5F09010	06/09/2015	06/10/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130	"	"	"
Surrogate: Toluene-d8	97.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130	"	"	"

pH in Soil by EPA 9045D

pH	8.09	pH Units	1	5F09013	06/09/2015	06/09/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.112	mmhos/cm	"	5F09014	06/09/2015	06/09/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5F09006	06/09/2015	06/09/2015
Diesel (C10-C28)	8.6	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	87.1 %	65-146	"	"	"	"	"	"

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John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

E01 @ 2.5'

6/9/2015 2:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X506112-04 (Soil)

BTEX by EPA 8260C

Benzene	0.023	0.002	mg/kg	1	5F09010	06/09/2015	06/10/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

pH in Soil by EPA 9045D

pH	7.33	pH Units	1	5F09013	06/09/2015	06/09/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.104	mmhos/cm	"	5F09014	06/09/2015	06/09/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5F09006	06/09/2015	06/09/2015
Diesel (C10-C28)	9.5	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	83.6 %	65-146	"	"	"	"	"	"

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Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

W01 @ 2.5'

6/9/2015 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X506112-05 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	5F09010	06/09/2015	06/10/2015
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	93.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130	"	"	"

pH in Soil by EPA 9045D

pH	8.15	pH Units	1	5F09013	06/09/2015	06/09/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0481	mmhos/cm	"	5F09014	06/09/2015	06/09/2015
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TPH-Carbon Chain by EPA Method 8015C

Gasoline (C6-C10)	ND	8.4	25	mg/kg	1	5F09006	06/09/2015	06/09/2015
Diesel (C10-C28)	9.9	6.5	25	"	"	"	"	"
Residual Range Organics (C28-C36)	ND	2.3	100	"	"	"	"	"
Surrogate: o-Terphenyl	87.8 %	65-146	"	"	"	"	"	"

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Arvada CO 80003

John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

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 5F09009 - EPA 5030B (Water)

Blank (5F09009-BLK1)

Prepared: 06/09/2015 Analyzed: 06/09/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5	110		87.3-113			
Surrogate: Toluene-d8	63		"	62.5	101		90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		88.6-111			

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Arvada CO 80003

John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

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 5F09009 - EPA 5030B (Water)

Blank (5F09009-BLK2)

Prepared: 06/09/2015 Analyzed: 06/09/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5	109		87.3-113			
Surrogate: Toluene-d8	63		"	62.5	100		90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.3		88.6-111			

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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 5F09009 - EPA 5030B (Water)

LCS (5F09009-BS1)

Prepared: 06/09/2015 Analyzed: 06/09/2015

Benzene	52.0	1.0	ug/L	50.0		104	75-126			
Toluene	52.5	1.0	"	50.0		105	78.7-126			
Ethylbenzene	53.5	1.0	"	50.0		107	80-130			
m,p-Xylene	106	2.0	"	100		106	77.2-133			
o-Xylene	52.8	1.0	"	50.0		106	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		102	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	88.6-111			

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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 5F09009 - EPA 5030B (Water)

LCS (5F09009-BS2)

Prepared: 06/09/2015 Analyzed: 06/09/2015

Benzene	50.5	1.0	ug/L	50.0		101	75-126			
Toluene	51.2	1.0	"	50.0		102	78.7-126			
Ethylbenzene	51.0	1.0	"	50.0		102	80-130			
m,p-Xylene	103	2.0	"	100		103	77.2-133			
o-Xylene	51.3	1.0	"	50.0		103	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	87.3-113			
Surrogate: Toluene-d8	64		"	62.5		102	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	88.6-111			

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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 5F09009 - EPA 5030B (Water)

Matrix Spike (5F09009-MS1)		Source: X506104-13			Prepared: 06/09/2015 Analyzed: 06/09/2015					
Benzene	55.7	1.0	ug/L	50.0	ND	111	74-130			
Toluene	56.4	1.0	"	50.0	ND	113	73-131			
Ethylbenzene	57.6	1.0	"	50.0	ND	115	76-132			
m,p-Xylene	115	2.0	"	100	ND	115	69-139			
o-Xylene	56.0	1.0	"	50.0	ND	112	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	87.3-113			
Surrogate: Toluene-d8	64		"	62.5		102	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	88.6-111			

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Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

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 5F09009 - EPA 5030B (Water)

Matrix Spike (5F09009-MS2)		Source: X506104-01			Prepared: 06/09/2015 Analyzed: 06/09/2015					
Benzene	56.0	1.0	ug/L	50.0	ND	112	74-130			
Toluene	57.8	1.0	"	50.0	ND	116	73-131			
Ethylbenzene	59.3	1.0	"	50.0	ND	119	76-132			
m,p-Xylene	119	2.0	"	100	ND	119	69-139			
o-Xylene	58.0	1.0	"	50.0	ND	116	74-131			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	87.3-113			
Surrogate: Toluene-d8	64		"	62.5		102	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	88.6-111			

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

John Cocroft
Project Number: 014215131
Project: KMG - HSR-Sharkey-64N67W /35SWNE

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 5F09009 - EPA 5030B (Water)

Matrix Spike Dup (5F09009-MSD1)		Source: X506104-13			Prepared: 06/09/2015 Analyzed: 06/09/2015					
Benzene	56.2	1.0	ug/L	50.0	ND	112	74-130	0.930	20	
Toluene	56.7	1.0	"	50.0	ND	113	73-131	0.636	20	
Ethylbenzene	58.0	1.0	"	50.0	ND	116	76-132	0.761	20	
m,p-Xylene	116	2.0	"	100	ND	116	69-139	1.14	20	
o-Xylene	56.3	1.0	"	50.0	ND	113	74-131	0.659	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.9	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	88.6-111			

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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 5F09009 - EPA 5030B (Water)

Matrix Spike Dup (5F09009-MSD2)		Source: X506104-01			Prepared: 06/09/2015 Analyzed: 06/09/2015					
Benzene	51.9	1.0	ug/L	50.0	ND	104	74-130	7.58	20	
Toluene	52.2	1.0	"	50.0	ND	104	73-131	10.2	20	
Ethylbenzene	53.2	1.0	"	50.0	ND	106	76-132	10.9	20	
m,p-Xylene	106	2.0	"	100	ND	106	69-139	11.5	20	
o-Xylene	52.0	1.0	"	50.0	ND	104	74-131	10.8	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

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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 5F09010 - EPA 5030 (soil)

Blank (5F09010-BLK1)

Prepared: 06/09/2015 Analyzed: 06/09/2015

Benzene	ND	0.002	mg/kg							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5	111		70-130			
Surrogate: Toluene-d8	58		"	62.5	93.4		70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100		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
Batch 5F09010 - EPA 5030 (soil)										
LCS (5F09010-BS1)					Prepared: 06/09/2015 Analyzed: 06/09/2015					
Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.090	0.002	"	0.100		89.6	74.5-128			
Ethylbenzene	0.086	0.002	"	0.100		86.3	66.4-127			
m,p-Xylene	0.176	0.004	"	0.200		87.9	76.6-124			
o-Xylene	0.090	0.002	"	0.100		90.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.6	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 5F09010 - EPA 5030 (soil)

Matrix Spike (5F09010-MS1)		Source: X506108-01			Prepared: 06/09/2015 Analyzed: 06/09/2015					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.093	0.002	"	0.100	ND	93.0	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	88.2	62.2-130			
m,p-Xylene	0.177	0.004	"	0.200	ND	88.6	46.5-137			
o-Xylene	0.094	0.002	"	0.100	ND	93.6	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	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
Batch 5F09010 - EPA 5030 (soil)										
Matrix Spike Dup (5F09010-MSD1)		Source: X506108-01			Prepared: 06/09/2015 Analyzed: 06/09/2015					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126	1.32	11.3	
Toluene	0.092	0.002	"	0.100	ND	91.5	65.1-130	1.54	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	87.4	62.2-130	0.934	19.6	
m,p-Xylene	0.173	0.004	"	0.200	ND	86.4	46.5-137	2.51	19.2	
o-Xylene	0.092	0.002	"	0.100	ND	92.0	54.2-134	1.72	17.9	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	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 5F09006 - EPA 3580

Blank (5F09006-BLK1)

Prepared: 06/09/2015 Analyzed: 06/09/2015

Gasoline (C6-C10)	ND	50	mg/kg
Diesel (C10-C28)	17	50	"
Residual Range Organics (C28-C36)	ND	200	"

Surrogate: o-Terphenyl 42.9 " 50.0 85.8 65-146

LCS (5F09006-BS1)

Prepared: 06/09/2015 Analyzed: 06/09/2015

Gasoline (C6-C10)	900	50	mg/kg	1000	90.3	66.7-119
Diesel (C10-C28)	920	50	"	1000	91.6	70.1-127
Residual Range Organics (C28-C36)	1100	200	"	1000	113	54.5-139

Surrogate: o-Terphenyl 48.7 " 50.0 97.5 65-146

Matrix Spike (5F09006-MS1)

Source: X506099-01

Prepared: 06/09/2015 Analyzed: 06/09/2015

Gasoline (C6-C10)	890	50	mg/kg	1000	ND	89.3	56.4-132
Diesel (C10-C28)	890	50	"	1000	10	89.1	57.4-138
Residual Range Organics (C28-C36)	1100	200	"	1000	ND	110	47.7-129

Surrogate: o-Terphenyl 48.7 " 50.0 97.3 65-146

Matrix Spike Dup (5F09006-MSD1)

Source: X506099-01

Prepared: 06/09/2015 Analyzed: 06/09/2015

Gasoline (C6-C10)	890	50	mg/kg	1000	ND	89.1	56.4-132	0.167	22
Diesel (C10-C28)	900	50	"	1000	10	90.1	57.4-138	1.18	18.3
Residual Range Organics (C28-C36)	1100	200	"	1000	ND	111	47.7-129	1.11	30.1

Surrogate: o-Terphenyl 49.9 " 50.0 99.8 65-146

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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
Batch 5F09013 - NO PREP										
Duplicate (5F09013-DUP1)	Source: X506112-02				Prepared: 06/09/2015 Analyzed: 06/09/2015					
pH	7.90		pH Units		8.09			2.38	25	
Batch 5F09014 - NO PREP										
Blank (5F09014-BLK1)					Prepared: 06/09/2015 Analyzed: 06/09/2015					
Specific Conductance (EC)	0.00300		mmhos/cm							
Duplicate (5F09014-DUP1)	Source: X506112-02				Prepared: 06/09/2015 Analyzed: 06/09/2015					
Specific Conductance (EC)	0.111		mmhos/cm		0.0974			12.9	25	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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