

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

RECEIVED
9/11/2013

SPILL/RELEASE REPORT

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

Spill report taken by:

FACILITY ID:
425390

OPERATOR INFORMATION

Name of Operator: _____ OGCC Operator No: _____	Phone Numbers
Address: _____	No: _____
City: _____ State: _____ Zip: _____	Fax: _____
Contact Person: _____	E-Mail: _____

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: _____ Facility Name & No.: _____	County: _____
Type of Facility (well, tank battery, flow line, pit): _____	QtrQtr: _____ Section: _____
Well Name and Number: _____	Township: _____ Range: _____
API Number: _____	Meridian: _____
Specify volume spilled and recovered (in bbls) for the following materials:	
Oil spilled: _____ Oil recov'd: _____ Water spilled: _____ Water recov'd: _____ Other spilled: _____ Other recov'd: _____	
Ground Water impacted? Yes No	Surface Water impacted? Yes No
Contained within berm? Yes No	Area and vertical extent of spill: _____ x _____
Current land use: _____	Weather conditions: _____
Soil/geology description: _____	
IF LESS THAN A MILE , report distance IN FEET to nearest.... Surface water: _____ wetlands: _____ buildings: _____	
Livestock: _____ water wells: _____ Depth to shallowest ground water: _____	
Cause of spill (e.g., equipment failure, human error, etc.): _____ Detailed description of the spill/release incident: _____	

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):

Describe any emergency pits constructed:

How was the extent of contamination determined:

Further remediation activities proposed (attach separate sheet if needed):

Describe measures taken to prevent problem from reoccurring:

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: **2146071**

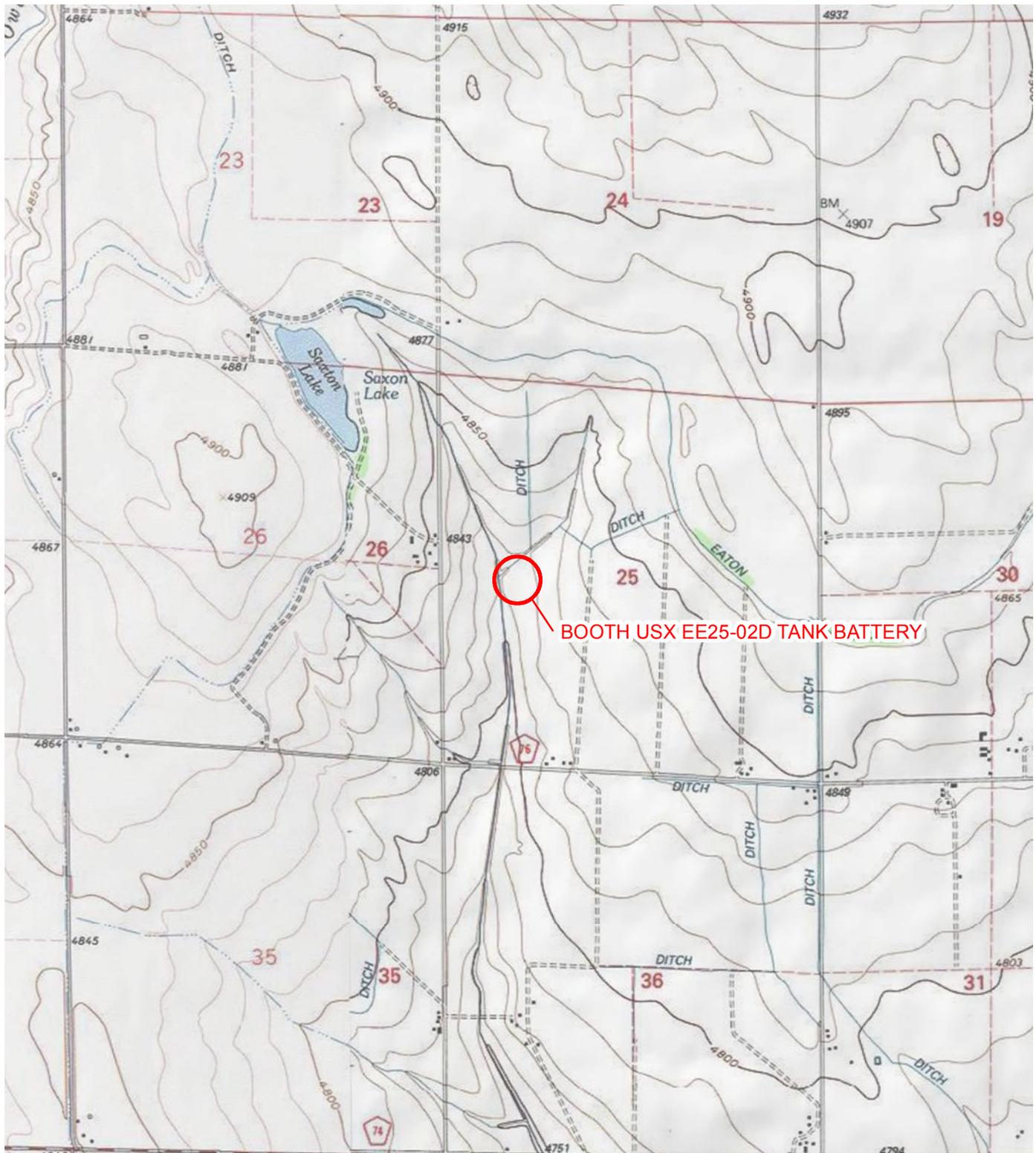


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

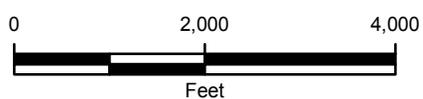


FIGURE 1
SITE LOCATION MAP
BOOTH USX EE25-02D TANK BATTERY
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.





IMAGE COURTESY OF GOOGLE EARTH 2012

LEGEND

-  RELEASE
-  SOIL SAMPLE
-  SURFACE WATER SAMPLE
-  SCRAPED AREA

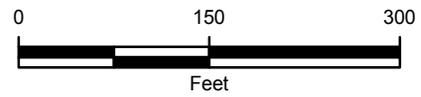


FIGURE 2
SITE MAP
 BOOTH USX EE25-02D TANK BATTERY
 WELD COUNTY, COLORADO

NOBLE ENERGY, INC.



September 05, 2013

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Noble - Booth USX EE 25-02D

Project Number - [none]

Attached are you analytical results for Noble - Booth USX EE 25-02D received by Origins Laboratory, Inc. September 03, 2013. This project is associated with Origins project number X309011-01.

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

Rob Rebel
Project Number: [none]
Project: Noble - Booth USX EE 25-02D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X309011-01	Soil	September 3, 2013 13:42	09/03/2013 17:32
SS02	X309011-02	Soil	September 3, 2013 14:03	09/03/2013 17:32
SS03	X309011-03	Soil	September 3, 2013 15:33	09/03/2013 17:32
SW01	X309011-04	Water	September 3, 2013 14:44	09/03/2013 17:32
SW02	X309011-05	Water	September 3, 2013 14:54	09/03/2013 17:32
SW03	X309011-06	Water	September 3, 2013 15:07	09/03/2013 17:32
SW04	X309011-07	Water	September 3, 2013 15:18	09/03/2013 17:32

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 E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

www.originslaboratory.com

page 1 of 1

X309011



Client: LTE
 Address: _____
 Telephone Number: 303-933-9788
 Email Address: Rebel@ltenv.com

Project Manager: Rob Rebel
 Project Name: Booth USX EE 25-02D
 Project Number: _____
 Samples Collected By: G Muziz

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	Turnaround Time:	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Asbestos #	Other	BTEX	Metals	TPH GAO			TPH DKO
SS01	9/13/13	1342	1	✓												Per-kin-beats	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
SS02		1403	1	✓												Reagent run only	
SS03		1533	1	✓												STEX on water	
Mixture of 01-05-13 SW01		1444	1	✓												Samples	
Mixture of 01-05-13 SW02		1454	1	✓												Sub 01-05-13	
Mixture of 01-05-13 SW03		1507	1	✓													
Mixture of 01-05-13 SW04		1518	1	✓													
Relinquished By: <u>[Signature]</u>	Date: <u>9/13/13</u>	Time: <u>1732</u>	Time: <u>1732</u>	Received By: <u>[Signature]</u>	Date: <u>09-23-13</u>	Time: <u>1732</u>	Date: <u>09-23-13</u>	Time: <u>1732</u>	Standard <input checked="" type="checkbox"/>								

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

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

Origins Laboratory: _____ F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X309011 Client: LTE
 Checklist Completed by: [Signature] Client Project ID: Booth USX
 Date/time completed: 09-03-13 17:35 Shipped Via: H/D
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: _____
 Matrix(s) Received: (Check all that apply): Soil/Solid Water _____ Other: _____
 Cooler Number/Temperature: 1119 °C _____ °C _____ °C (Describe)
 Thermometer ID: 1002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled today
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 ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?		X		all 09-03-13 Only one sample vol Vial per sample
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.				
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 Na ₂ SO ₂ +NaOH, ZnAc+NaOH)	X	X		Unpreserved must be analyzed w/in 7 days.
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.

[Signature]
 Reviewed by (Project Manager)

09-05-13 14:29
 Date/Time Reviewed

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

SS01

9/3/2013 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X309011-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	3105006	09/05/2013	09/05/2013	
Surrogate: o-Terphenyl	108 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.40	mg/kg	1	3105005	09/05/2013	09/05/2013	
Benzene	ND	0.0040	"	"	"	"	"	
Toluene	ND	0.0040	"	"	"	"	"	
Ethylbenzene	ND	0.0040	"	"	"	"	"	
Xylenes, total	ND	0.0040	"	"	"	"	"	
Naphthalene	ND	0.0080	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	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.

Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

SS02

9/3/2013 2:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X309011-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	3105006	09/05/2013	09/05/2013	
Surrogate: o-Terphenyl	103 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.40	mg/kg	1	3105005	09/05/2013	09/05/2013	
Benzene	ND	0.0040	"	"	"	"	"	
Toluene	ND	0.0040	"	"	"	"	"	
Ethylbenzene	ND	0.0040	"	"	"	"	"	
Xylenes, total	ND	0.0040	"	"	"	"	"	
Naphthalene	ND	0.0080	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

SS03

9/3/2013 3:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X309011-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	3105006	09/05/2013	09/05/2013	
Surrogate: o-Terphenyl	105 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.40	mg/kg	1	3105005	09/05/2013	09/05/2013	
Benzene	ND	0.0040	"	"	"	"	"	
Toluene	ND	0.0040	"	"	"	"	"	
Ethylbenzene	ND	0.0040	"	"	"	"	"	
Xylenes, total	ND	0.0040	"	"	"	"	"	
Naphthalene	ND	0.0080	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

SW01

9/3/2013 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X309011-04 (Water)

BTEX by EPA 8260C

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013	
Toluene	ND	2.0	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.4 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

SW02

9/3/2013 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X309011-05 (Water)

BTEX by EPA 8260C

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013	
Toluene	ND	2.0	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

SW03

9/3/2013 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X309011-06 (Water)

BTEX by EPA 8260C

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013	
Toluene	ND	2.0	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

SW04

9/3/2013 3:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X309011-07 (Water)

BTEX by EPA 8260C

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013	
Toluene	ND	2.0	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

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 3I05005 - EPA 5030 (soil)

Blank (3I05005-BLK1)

Prepared: 09/05/2013 Analyzed: 09/05/2013

Gasoline Range Hydrocarbons	ND	0.40	mg/kg							
Benzene	ND	0.0040	"							
Toluene	ND	0.0040	"							
Ethylbenzene	ND	0.0040	"							
Xylenes, total	ND	0.0040	"							
Naphthalene	ND	0.0080	"							
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

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 3I05005 - EPA 5030 (soil)

LCS (3I05005-BS1)

Prepared: 09/05/2013 Analyzed: 09/05/2013

Benzene	0.21	0.0040	mg/kg	0.200		105	70-130			
Toluene	0.21	0.0040	"	0.200		104	70-130			
Ethylbenzene	0.19	0.0040	"	0.200		97.4	70-130			
m,p-Xylene	0.37	0.0080	"	0.400		92.9	70-130			
o-Xylene	0.18	0.0040	"	0.200		91.8	70-130			
Naphthalene	0.18	0.0080	"				70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

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 3I05005 - EPA 5030 (soil)

Matrix Spike (3I05005-MS1)	Source: X309011-01			Prepared: 09/05/2013 Analyzed: 09/05/2013						
Benzene	0.20	0.0040	mg/kg	0.200	ND	99.6	70-130			
Toluene	0.19	0.0040	"	0.200	ND	97.0	70-130			
Ethylbenzene	0.19	0.0040	"	0.200	ND	94.8	70-130			
m,p-Xylene	0.37	0.0080	"	0.400	ND	93.7	70-130			
o-Xylene	0.18	0.0040	"	0.200	ND	89.9	70-130			
Naphthalene	0.15	0.0080	"		0.0034		70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	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.

Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

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 3I05005 - EPA 5030 (soil)

Matrix Spike Dup (3I05005-MSD1)	Source: X309011-01			Prepared: 09/05/2013 Analyzed: 09/05/2013						
Benzene	0.20	0.0040	mg/kg	0.200	ND	98.6	70-130	1.05	20	
Toluene	0.19	0.0040	"	0.200	ND	96.8	70-130	0.206	20	
Ethylbenzene	0.19	0.0040	"	0.200	ND	95.0	70-130	0.190	20	
m,p-Xylene	0.37	0.0080	"	0.400	ND	91.4	70-130	2.54	20	
o-Xylene	0.18	0.0040	"	0.200	ND	89.2	70-130	0.737	20	
Naphthalene	0.17	0.0080	"		0.0034		70-130	11.0	20	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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Noelle E Doyle, President

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

Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

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 3I05007 - EPA 5030B (Water)

Blank (3I05007-BLK1)

Prepared: 09/05/2013 Analyzed: 09/05/2013

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.4		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.3		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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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 3I05007 - EPA 5030B (Water)

LCS (3I05007-BS1)

Prepared: 09/05/2013 Analyzed: 09/05/2013

Benzene	48.0	1.0	ug/L	50.0		95.9	74-130			
Toluene	45.7	1.0	"	50.0		91.4	76-128			
Ethylbenzene	45.7	1.0	"	50.0		91.4	78-130			
m,p-Xylene	90.5	2.0	"	100		90.5	75-134			
o-Xylene	47.8	1.0	"	50.0		95.5	76-129			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.1	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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Rob Rebel
 Project Number: [none]
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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 3I05007 - EPA 5030B (Water)

LCS Dup (3I05007-BSD1)

Prepared: 09/05/2013 Analyzed: 09/05/2013

Benzene	51.3	1.0	ug/L	50.0		103	74-130	6.79	20	
Toluene	49.5	1.0	"	50.0		99.0	76-128	7.92	20	
Ethylbenzene	50.3	1.0	"	50.0		101	78-130	9.54	20	
m,p-Xylene	98.8	2.0	"	100		98.8	75-134	8.71	20	
o-Xylene	51.0	1.0	"	50.0		102	76-129	6.64	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.3	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Rob Rebel
 Project Number: [none]
 Project: Noble - Booth USX EE 25-02D

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 8015M - 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 3I05006 - EPA 3580

Blank (3I05006-BLK1)

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	55		g	50.0		110	59-131			

LCS (3I05006-BS1)

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28)	1070	50.0	mg/kg	1000		107	64-121			
Surrogate: o-Terphenyl	51		g	50.0		102	59-131			

Matrix Spike (3I05006-MS1)

Source: X309011-02

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	53-125			
Surrogate: o-Terphenyl	54		g	50.0		108	59-131			

Matrix Spike Dup (3I05006-MSD1)

Source: X309011-02

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	53-125	2.55	20	
Surrogate: o-Terphenyl	49		g	50.0		97.2	59-131			

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Project Number: [none]
Project: Noble - Booth USX EE 25-02D

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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