

1625 Broadway
Suite 2200.
Denver, CO 80202



Tel: 303.228.4000
Fax: 303.228.4286
www.nobleenergyinc.com

North America Division

May 30, 2012

Mr. John Axelson
Department of Natural Resources
Oil & Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80201

RE: Ground Water Monitoring Report
Mills Felt 1-22
Release Tracking # 2221820
API # 05-123-10654
SWSW Sec. 22, T6N R66W
Weld County, CO

Dear Mr. Axelson:

Please find attached Monitoring Well Installation and Ground Water Monitoring Report for the Mills Felt 1-22 Tank Battery. Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all subsequent correspondence related to this matter. Please contact the Noble Energy EHS Department at 303-228-4000 if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ryan Bruner'.

Ryan Bruner
Environmental Coordinator

Attachment



GROUNDWATER MONITORING REPORT APRIL 2012

MILLS-FELT 1-22 TANK BATTERY

On April 4, 2012, LT Environmental, Inc. (LTE), under the direction of Noble Energy, Inc. (Noble), conducted groundwater monitoring at the Mills-Felt 1-22 Tank Battery (Site). The tank battery has been decommissioned and agriculture activities will resume in the near future. Site history and remediation activities were described in preceding reports. The April 2012 groundwater monitoring event constitutes the third post-remediation performance groundwater monitoring event.

Monitoring wells (MW01 through MW05) were installed on January 12, 2012. A site map is presented as Figure 1. Groundwater level measurements were collected from monitoring wells MW01 through MW05 and are summarized in Table 1.

During the April 2012 monitoring event, depth to groundwater, which ranged from 7.05 feet below top of casing (btoc) in monitoring well MW01 to 8.31 feet btoc in monitoring well MW02, was used to calculate well-specific purge volumes. Following well purging, samples were collected and then submitted to Origins Laboratory Inc. of Denver, Colorado, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8260C.

Analytical results presented in Table 1 indicate BTEX concentrations are in compliance with the Colorado Department of Public Health and Environment-Water Quality Control Commission Regulation 41-The Basic Standards for Ground Water (WQCC Reg 41). The laboratory analytical report is included as the Attachment.

This event constitutes the third monitoring event in compliance with applicable standards. LTE, under the direction of Noble, will continue to conduct groundwater monitoring events with the goal of obtaining as many analytical results in compliance with WQCC Reg 41 before agriculture activities resume on site. The next groundwater monitoring event is scheduled for May 2012.

FIGURE

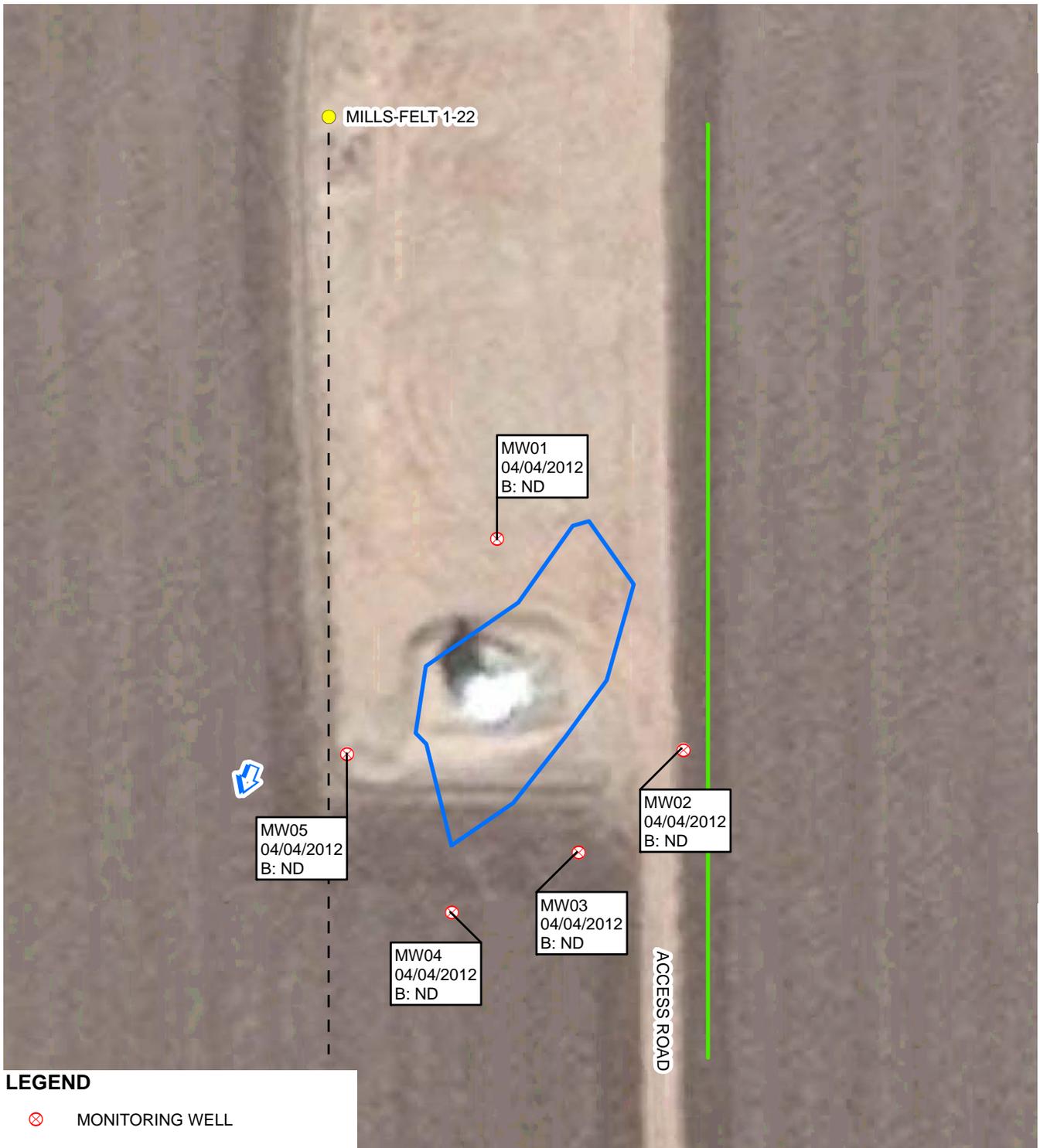


IMAGE COURTESY OF GOOGLE EARTH, 04/07/2010

LEGEND

- MONITORING WELL
- WELLHEAD
- GROUNDWATER FLOW DIRECTION
- FLOW LINE
- DCP LINE
- EXCAVATION AREA

SAMPLE ID
 SAMPLE DATE
 B: BENZENE IN MICROGRAMS PER LITER (µg/L)
 ND: NON DETECT

FIGURE 1
 GROUNDWATER ANALYTICAL RESULTS
 MILLS-FELT 1-22 TANK BATTERY
 WELD COUNTY, COLORADO

NOBLE ENERGY, INC.



TABLE

TABLE 1

**GROUNDWATER ANALYTICAL RESULTS
MILLS-FELT 1-22 TANK BATTERY
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

Monitoring Well	Date	Depth to Water (feet btoc)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW01	1/13/2012	7.58	<1.0	1.77	<1.0	<3.0
	2/7/2012	7.15	<1.0	<1.0	<1.0	<1.0
	4/4/2012	7.05	<1.0	<1.0	<1.0	<1.0
MW02	1/13/2012	7.93	1.51	20	4.41	15.8
	2/7/2012	8.10	<1.0	<1.0	<1.0	<1.0
	4/4/2012	8.31	<1.0	<1.0	<1.0	<1.0
MW03	1/13/2012	7.54	<1.0	<1.0	<1.0	<3.0
	2/7/2012	7.73	<1.0	<1.0	<1.0	<1.0
	4/4/2012	7.46	<1.0	<1.0	<1.0	<1.0
MW04	1/13/2012	7.72	<1.0	4.51	1.49	6.53
	2/7/2012	7.88	<1.0	<1.0	<1.0	<1.0
	4/4/2012	8.10	<1.0	<1.0	<1.0	<1.0
MW05	1/13/2012	7.48	<1.0	1.36	<1.0	<3.0
	2/7/2012	7.63	<1.0	<1.0	<1.0	<1.0
	4/4/2012	7.73	<1.0	<1.0	<1.0	<1.0
CDPHE WQCC Reg 41			5.0	560	700	1,400

NOTES:

btoc - below top of casing

µg/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260C

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment-Water Quality Control
Commission Regulation 41 covering The Basic Standards for Ground Water

ATTACHMENT

LABORATORY ANALYTICAL REPORT



April 09, 2012

LT Environmental, Inc.

Steve Kahn

4600 West 60th Avenue

Arvada CO 80003

Project Name - Noble - Mills-Felt 1-22

Project Number - 008311069

Attached are you analytical results for Noble - Mills-Felt 1-22 received by Origins Laboratory, Inc. April 04, 2012. This project is associated with Origins project number X204033-01.

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.

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

Steve Kahn
Project Number: 008311069
Project: Noble - Mills-Felt 1-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	X204033-01	Water	April 4, 2012 12:00	04/04/2012 16:00
MW02	X204033-02	Water	April 4, 2012 12:20	04/04/2012 16:00
MW03	X204033-03	Water	April 4, 2012 12:40	04/04/2012 16:00
MW04	X204033-04	Water	April 4, 2012 13:00	04/04/2012 16:00
MW05	X204033-05	Water	April 4, 2012 13:20	04/04/2012 16:00

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

www.originslaboratory.com

X201033

page 1 of 1

Client: LTE
 Address: _____
 Telephone Number: _____
 Email Address: _____

Project Manager: Steve Kahn
 Project Name: Mills Felt 1-22
 Project Number: 008311069
 Samples Collected By: J. Guynn

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 ₃	Other	Groundwater	Soil	Air Summa #	Other			
MW01	4-4-12	1200	3	X				X					Filter	1
MW02	4-4-12	1200	3	X				X					Filter	2
MW03	4-4-12	1240	3	X				X					Filter	3
MW04	4-4-12	1300	3	X				X					Filter	4
MW05	4-4-12	1310	3	X				X					Filter	5
														6
														7
														8
														9
														10
Relinquished By: <u>[Signature]</u>	Date: <u>4-4-12</u>	Time: <u>4:00</u>	Received By: <u>[Signature]</u>	Date: <u>4/4/12</u>	Time: <u>16:00</u>	Turnaround Time: <input type="checkbox"/> Same Day <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard								

Date Results Needed

Origins Laboratory, Inc.

Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X204033 Client: ST
 Client Project ID: MILLS FELT
 Checklist Completed by: [Signature] Shipped Via: H/D
 Date/time completed: 4/4/12 16:02 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 175 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 1001

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"/>	<input checked="" type="checkbox"/>		<u>MISSING ANALYSIS</u>
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		<u>SAMPLES WILL BE ANALYZED WITHIN 7-DAYS OF COLLECTION</u>
Additional Comments (if any):	<u>CONFIRMED ANALYSIS WITH JACOB SOARS</u>			
<u>By PHONE 4/10/12 [Signature]</u>				

⁽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) [Signature] Date/Time Reviewed 4/10/12 1318

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

MW01
 4/4/2012 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X204033-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.9 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	97.2 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	104 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

MW02
 4/4/2012 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X204033-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

MW03
 4/4/2012 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X204033-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

MW04
 4/4/2012 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X204033-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>100 %</i>	<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>	<i>91.6 %</i>	<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>108 %</i>	<i>70-130</i>			<i>"</i>	<i>"</i>	<i>"</i>	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

MW05
 4/4/2012 1:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X204033-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

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 2D05003 - EPA 5030B (Water)

Blank (2D05003-BLK1)

Prepared: 04/05/2012 Analyzed: 04/05/2012

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>53</i>		<i>"</i>	<i>62.5</i>	<i>85.4</i>		<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>	<i>97.4</i>		<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>64</i>		<i>"</i>	<i>62.5</i>	<i>103</i>		<i>70-130</i>			

Origins Laboratory, Inc.



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 4600 West 60th Avenue
 Arvada CO 80003

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

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 2D05003 - EPA 5030B (Water)

Blank (2D05003-BLK2)

Prepared: 04/05/2012 Analyzed: 04/05/2012

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>54</i>		<i>"</i>	<i>62.5</i>	<i>86.5</i>		<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>	<i>97.6</i>		<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>64</i>		<i>"</i>	<i>62.5</i>	<i>102</i>		<i>70-130</i>			

Origins Laboratory, Inc.



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 4600 West 60th Avenue
 Arvada CO 80003

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

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 2D05003 - EPA 5030B (Water)

LCS (2D05003-BS1)

Prepared: 04/05/2012 Analyzed: 04/05/2012

Benzene	102	1.0	ug/L	100	102	70-130				
Toluene	98.4	1.0	"	100	98.4	70-130				
Ethylbenzene	102	1.0	"	100	102	70-130				
m,p-Xylene	206	2.0	"	200	103	70-130				
o-Xylene	103	1.0	"	100	103	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>54</i>		<i>"</i>	<i>62.5</i>	<i>85.8</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>55</i>		<i>"</i>	<i>62.5</i>	<i>87.4</i>	<i>70-130</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>69</i>		<i>"</i>	<i>62.5</i>	<i>110</i>	<i>70-130</i>				

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

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 2D05003 - EPA 5030B (Water)

LCS (2D05003-BS2)

Prepared: 04/05/2012 Analyzed: 04/05/2012

Benzene	102	1.0	ug/L	100		102	70-130			
Toluene	105	1.0	"	100		105	70-130			
Ethylbenzene	105	1.0	"	100		105	70-130			
m,p-Xylene	214	2.0	"	200		107	70-130			
o-Xylene	113	1.0	"	100		113	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>55</i>		<i>"</i>	<i>62.5</i>		<i>87.8</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>97.9</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>64</i>		<i>"</i>	<i>62.5</i>		<i>102</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

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 2D05003 - EPA 5030B (Water)

Matrix Spike (2D05003-MS1)	Source: X204001-01			Prepared: 04/05/2012 Analyzed: 04/05/2012						
Benzene	90.6	1.0	ug/L	100	ND	90.6	70-130			QR-02
Toluene	92.9	1.0	"	100	ND	92.9	70-130			QR-02
Ethylbenzene	102	1.0	"	100	ND	102	70-130			QR-02
m,p-Xylene	205	2.0	"	200	ND	102	70-130			QR-02
o-Xylene	103	1.0	"	100	ND	103	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50</i>		<i>"</i>	<i>62.5</i>		<i>79.6</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>55</i>		<i>"</i>	<i>62.5</i>		<i>87.2</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>65</i>		<i>"</i>	<i>62.5</i>		<i>104</i>	<i>70-130</i>			

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Noelle E Doyle, President

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

Steve Kahn
 Project Number: 008311069
 Project: Noble - Mills-Felt 1-22

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 2D05003 - EPA 5030B (Water)

Matrix Spike (2D05003-MS2)	Source: X204003-01			Prepared: 04/05/2012 Analyzed: 04/05/2012						
Benzene	110	1.0	ug/L	100	ND	110	70-130			
Toluene	114	1.0	"	100	ND	114	70-130			
Ethylbenzene	112	1.0	"	100	ND	112	70-130			
m,p-Xylene	219	2.0	"	200	ND	110	70-130			
o-Xylene	104	1.0	"	100	ND	104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52</i>		<i>"</i>	<i>62.5</i>		<i>82.7</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>97.9</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>60</i>		<i>"</i>	<i>62.5</i>		<i>96.1</i>	<i>70-130</i>			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2D05003 - EPA 5030B (Water)

Matrix Spike Dup (2D05003-MSD1)	Source: X204001-01			Prepared: 04/05/2012 Analyzed: 04/05/2012						
Benzene	122	1.0	ug/L	100	ND	122	70-130	29.6	20	QR-02
Toluene	115	1.0	"	100	ND	115	70-130	21.7	20	QR-02
Ethylbenzene	126	1.0	"	100	ND	126	70-130	21.8	20	QR-02
m,p-Xylene	255	2.0	"	200	ND	127	70-130	21.8	20	QR-02
o-Xylene	123	1.0	"	100	ND	123	70-130	17.8	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>57</i>		<i>"</i>	<i>62.5</i>		<i>91.8</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>59</i>		<i>"</i>	<i>62.5</i>		<i>93.9</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>70</i>		<i>"</i>	<i>62.5</i>		<i>112</i>	<i>70-130</i>			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2D05003 - EPA 5030B (Water)

Matrix Spike Dup (2D05003-MSD2)	Source: X204003-01			Prepared: 04/05/2012 Analyzed: 04/05/2012						
Benzene	105	1.0	ug/L	100	ND	105	70-130	4.60	20	
Toluene	107	1.0	"	100	ND	107	70-130	5.99	20	
Ethylbenzene	108	1.0	"	100	ND	108	70-130	3.90	20	
m,p-Xylene	218	2.0	"	200	ND	109	70-130	0.334	20	
o-Xylene	109	1.0	"	100	ND	109	70-130	4.67	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52</i>		<i>"</i>	<i>62.5</i>		<i>83.2</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>98.5</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>105</i>	<i>70-130</i>			

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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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