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North America Division

Remediation# 4581

June 6, 2011

Mr. Bob Chesson
Department Of Natural Resources
Oil & Gas Conservation Commission
1120 Lincoln St., Suite 801
Denver CO 80203-2136

RE: Ground water monitoring report and closure request letter
Phillips L30-6JI
API 05-123-22154
SENE Sec. 30, T3N R66W
Weld County, Colorado

Dear Mr. Chesson:

Please find attached the fourth quarter ground water monitor report for the Phillips L30-6JI. Based on the site remedial activities and the attached laboratory analytical results, Noble Energy, Inc. is requesting that the COGCC consider this location closed, requiring no further action.

Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all previous and subsequent correspondence related to this matter. Please contact the Noble Energy Environmental Department at (970) 785-5000 if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mike Cox'.

Mike Cox
Environmental Coordinator

A handwritten signature in blue ink, appearing to read 'Todd Cullum'.

Todd Cullum
Environmental Specialist

Attachments



Remediation #4581

GROUNDWATER MONITORING REPORT/ NO FURTHER ACTION REQUEST JUNE 2011

PHILLIPS L30-6JI TANK BATTERY

On May 4, 2011, LT Environmental, Inc. (LTE) conducted groundwater monitoring at the direction of Noble Energy, Inc. (Noble) at the Phillips L30-6JI Tank Battery (Site). This monitoring event constitutes the eighth post-remediation monitoring event at this Site. Site history, remediation activities, and groundwater monitoring results have been described in preceding reports.

Monitoring wells SB06, SB08, and SB10 were installed on May 21, 2009, and monitoring wells SB12, SB13, SB18, and SB19 were installed on May 26, 2009. Monitoring well SB06 was destroyed prior to the monitoring event on November 20, 2009, and was reinstalled January 15, 2010, as SB06R. SB10 was destroyed prior to the monitoring event on February 17, 2011. Well locations, surface features, and current benzene concentrations are presented as Figure 1. Groundwater level measurements collected are summarized in Table 1.

Depth to groundwater ranged from 2.64 feet below top of casing (btoc) in SB19 to 4.07 feet btoc in SB12 and was used to calculate well-specific purge volumes. Following purging, groundwater 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.

Groundwater 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 (WQCC Reg 41). The laboratory analytical report is included in the Appendix.

The May 2011 groundwater monitoring event constitutes the fourth consecutive quarterly monitoring event in which groundwater analytical results have been in compliance with WQCC Reg 41. As groundwater has been remediated to achieve cleanup goals, Noble requests that the Colorado Oil and Gas Conservation Commission grant a No Further Action status for the Phillips L30-6JI Tank Battery.

FIGURE



IMAGE COURTESY OF GOOGLE EARTH, 2009

LEGEND

- PRODUCTION WELLHEAD
- ⊗ MONITORING WELL
- CURRENT INFRASTRUCTURE
- BERM
- PERMEABLE REACTIVE BARRIER (PRB)
- EXCAVATION EXTENT

GROUNDWATER SAMPLES COLLECTED 05/04/2011

FIGURE 1
BENZENE CONCENTRATION IN GROUNDWATER
PHILLIPS L30-6JI TANK BATTERY
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.



TABLE

TABLE 1

**GROUNDWATER ANALYTICAL DATA
PHILLIPS L30-6JI TANK BATTERY
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

MONITORING		DEPTH TO	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL
WELL	DATE	WATER (feet btoc)	(µg/L)	(µg/L)	(µg/L)	XYLENES (µg/L)
SB06	5/29/2009	3.53	<1.00	9.71	20.5	30.81
	8/4/2009	2.03	33.7	<1.00	33.4	231.6
	11/20/2009	----- Destroyed -----				
SB06R	2/18/2010	3.78	<1.00	<1.00	<1.00	<3.00
	5/19/2010	3.43	<1.00	<1.00	<1.00	<1.00
	8/4/2010	2.60	<1.00	<1.00	<1.00	<1.00
	11/4/2010	3.16	<1.00	<1.00	<1.00	<1.00
	2/17/2011	3.73	<1.00	<1.00	<1.00	<3.00
	5/4/2011	3.93	<1.00	<1.00	<1.00	<3.00
SB10	5/29/2009	2.77	<1.00	<1.00	<1.00	<3.00
	8/4/2009	2.37	2.35	<1.00	9.88	89.5
	11/20/2009	2.79	<1.00	<1.00	<1.00	<3.00
	2/18/2010	3.22	<1.00	<1.00	<1.00	<3.00
	5/19/2010	2.82	<1.00	<1.00	<1.00	<1.00
	8/4/2010	2.09	<1.00	<1.00	<1.00	<1.00
	11/4/2010	2.59	<1.00	<1.00	<1.00	<1.00
	2/17/2011	----- Destroyed -----				
SB12	5/29/2009	3.46	103	281	69.2	861
	8/4/2009	2.75	130	31.4	15.3	174.6
	11/20/2009	3.47	3.71	62.3	12.8	115.4
	2/18/2010	3.93	3.29	<1.00	37.4	279.0
	5/19/2010	3.49	1.87	2.20	57.6	442
	8/4/2010	2.72	3.79	7.90	8.57	64
	11/4/2010	3.27	2.71	231.00	49.2	589
	2/17/2011	3.89	<1.00	<1.00	<1.00	6.35
	5/4/2011	4.07	<1.0	26.4	6.1	84.6
SB13	5/29/2009	3.1	<1.00	<1.00	<1.00	<3.00
	8/4/2009	2.39	<1.00	<1.00	<1.00	<3.00
	11/20/2009	3.11	<1.00	<1.00	<1.00	<3.00
	2/18/2010	3.60	<1.00	<1.00	<1.00	<3.00
	5/19/2010	3.19	<1.00	<1.00	<1.00	<1.00
	8/4/2010	2.35	<1.00	<1.00	<1.00	<1.00
	11/4/2010	2.91	<1.00	<1.00	<1.00	<1.00
	2/17/2011	3.56	<1.00	<1.00	<1.00	<3.00
	5/4/2011	3.79	<1.00	<1.00	<1.00	<3.00

TABLE 1

**GROUNDWATER ANALYTICAL DATA
PHILLIPS L30-6JI TANK BATTERY
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

MONITORING		DEPTH TO WATER	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES
WELL	DATE	(feet btoc)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SB18	5/29/2009	3.06	2.52	<1.00	<1.00	<3.00
	8/4/2009	2.4	<1.00	<1.00	<1.00	<3.00
	11/20/2009	3.10	<1.00	<1.00	<1.00	<3.00
	2/18/2010	3.55	<1.00	<1.00	<1.00	<3.00
	5/19/2010	3.14	<1.00	<1.00	<1.00	<1.00
	8/4/2010	2.34	<1.00	<1.00	<1.00	<1.00
	11/4/2010	2.91	<1.00	<1.00	<1.00	<1.00
	2/17/2011	3.49	<1.00	<1.00	<1.00	<3.00
	5/4/2011	3.72	<1.00	<1.00	<1.00	<3.00
SB19	5/29/2009	2.97	17.1	<1.00	<1.00	<3.00
	8/4/2009	2.34	<1.00	<1.00	<1.00	<3.00
	11/20/2009	2.02	<1.00	<1.00	<1.00	<3.00
	2/18/2010	2.51	58.5	<1.00	18.68	<3.00
	5/19/2010	2.06	54.8	<1.00	<1.00	67.1
	8/4/2010	1.23	<1.00	<1.00	<1.00	<1.00
	11/4/2010	1.80	<1.00	<1.00	<1.00	<1.00
	2/17/2011	2.35	<1.00	<1.00	<1.00	<3.00
	5/4/2011	2.64	<1.00	<1.00	<1.00	<3.00
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

Bold - indicates concentration exceeds the CDPHE WQCC Reg 41 standard

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment - Water Quality Control

Commission Regulation 41 covering Basic Standards for Groundwater

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B (5/29/09 to 2/17/11) and 8260C (5/4/11)

APPENDIX

LABORATORY ANALYTICAL REPORT



May 11, 2011

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Noble - Phillips L30-6JI

Project Number - NEP0909

Attached are you analytical results for Noble - Phillips L30-6JI received by Origins Laboratory, Inc. May 05, 2011. This project is associated with Origins project number X105038-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody.

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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB06R	X105038-01	Water	May 4, 2011 14:25	05/05/2011 17:28
SB12	X105038-02	Water	May 4, 2011 14:55	05/05/2011 17:28
SB13	X105038-03	Water	May 4, 2011 14:45	05/05/2011 17:28
SB18	X105038-04	Water	May 4, 2011 14:35	05/05/2011 17:28
SB19	X105038-05	Water	May 4, 2011 15:05	05/05/2011 17:28

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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

Origins Laboratory

F-012207-01
Effective Date: 01/22/07

Sample Receipt Checklist

Origins Work Order: X100038

Client: LTE Client Project ID: Phillips L30-6JI

Shipped Via: Hand Delivered Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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

Cooler ID					
Temp (°C)	<u>47.2</u>				

Thermometer ID: T001

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Contact Client</u>
NOTE: If samples are delivered within 5 hours of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽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 present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservation in the Comments column (e.g., HCl).		<input checked="" type="checkbox"/>		
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in the case narrative.				

Jeff Smith
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

Date/Time

Origins Laboratory, Inc.

[Signature]

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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

SB06R

5/4/2011 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X105038-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1E06005	05/06/2011	05/09/2011
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

SB12

5/4/2011 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X105038-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1E06005	05/06/2011	05/09/2011
Toluene	26.4	1.0	"	"	"	"	"
Ethylbenzene	6.1	1.0	"	"	"	"	"
Xylenes, total	84.6	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130	"	"	"

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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

SB13

5/4/2011 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X105038-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1E06005	05/06/2011	05/09/2011
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130	"	"	"
Surrogate: Toluene-d8	106 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130	"	"	"

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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

SB18

5/4/2011 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X105038-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1E06005	05/06/2011	05/09/2011
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130	"	"	"

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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

SB19

5/4/2011 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X105038-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1E06005	05/06/2011	05/09/2011
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130	"	"	"
Surrogate: Toluene-d8	105 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	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

Project Number: NEP0909

Project Name: Noble - Phillips L30-6Jl

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 1E06005 - EPA 5030B

Blank (1E06005-BLK1)

Prepared: 05/06/2011 Analyzed: 05/09/2011

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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

Project Number: NEP0909

Project Name: Noble - Phillips L30-6Jl

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 1E06005 - EPA 5030B

Blank (1E06005-BLK2)

Prepared: 05/06/2011 Analyzed: 05/09/2011

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	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

Project Number: NEP0909

Project Name: Noble - Phillips L30-6JI

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 1E06005 - EPA 5030B

LCS (1E06005-BS1)

Prepared: 05/06/2011 Analyzed: 05/09/2011

Benzene	39.8	1.0	ug/L	50.0		79.6	70-130			
Toluene	40.7	1.0	"	50.0		81.4	70-130			
Ethylbenzene	40.1	1.0	"	50.0		80.2	70-130			
m,p-Xylene	83.1	2.0	"	100		83.1	70-130			
o-Xylene	42.8	1.0	"	50.0		85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	70-130			

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

Project Number: NEP0909

Project Name: Noble - Phillips L30-6JI

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 1E06005 - EPA 5030B

LCS (1E06005-BS2)

Prepared: 05/06/2011 Analyzed: 05/09/2011

Benzene	42.6	1.0	ug/L	50.0		85.2	70-130			
Toluene	43.0	1.0	"	50.0		85.9	70-130			
Ethylbenzene	42.2	1.0	"	50.0		84.5	70-130			
m,p-Xylene	88.0	2.0	"	100		88.0	70-130			
o-Xylene	45.1	1.0	"	50.0		90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	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

Project Number: NEP0909

Project Name: Noble - Phillips L30-6JI

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 1E06005 - EPA 5030B

Matrix Spike (1E06005-MS1)		Source: X105018-07			Prepared: 05/06/2011 Analyzed: 05/09/2011					
Benzene	41.0	1.0	ug/L	50.0	ND	82.1	70-130			
Toluene	41.0	1.0	"	50.0	ND	82.0	70-130			
Ethylbenzene	39.4	1.0	"	50.0	ND	78.9	70-130			
m,p-Xylene	81.5	2.0	"	100	ND	81.5	70-130			
o-Xylene	43.6	1.0	"	50.0	ND	87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	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

Project Number: NEP0909
Project Name: Noble - Phillips L30-6JI

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 1E06005 - EPA 5030B

Matrix Spike (1E06005-MS2)		Source: X105030-01			Prepared: 05/06/2011 Analyzed: 05/09/2011					
Benzene	45.9	1.0	ug/L	50.0	ND	91.9	70-130			
Toluene	46.1	1.0	"	50.0	ND	92.2	70-130			
Ethylbenzene	45.3	1.0	"	50.0	ND	90.5	70-130			
m,p-Xylene	93.0	2.0	"	100	ND	93.0	70-130			
o-Xylene	47.9	1.0	"	50.0	ND	95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		88.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.2	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1E06005 - EPA 5030B

Matrix Spike Dup (1E06005-MSD1)		Source: X105018-07			Prepared: 05/06/2011 Analyzed: 05/09/2011					
Benzene	42.1	1.0	ug/L	50.0	ND	84.2	70-130	2.57	20	
Toluene	41.7	1.0	"	50.0	ND	83.4	70-130	1.64	20	
Ethylbenzene	41.6	1.0	"	50.0	ND	83.2	70-130	5.26	20	
m,p-Xylene	81.3	2.0	"	100	ND	81.3	70-130	0.221	20	
o-Xylene	43.2	1.0	"	50.0	ND	86.4	70-130	0.830	20	
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		87.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1E06005 - EPA 5030B

Matrix Spike Dup (1E06005-MSD2)		Source: X105030-01			Prepared: 05/06/2011 Analyzed: 05/09/2011					
Benzene	45.6	1.0	ug/L	50.0	ND	91.1	70-130	0.809	20	
Toluene	45.2	1.0	"	50.0	ND	90.5	70-130	1.90	20	
Ethylbenzene	44.0	1.0	"	50.0	ND	88.0	70-130	2.85	20	
m,p-Xylene	89.4	2.0	"	100	ND	89.4	70-130	3.98	20	
o-Xylene	46.5	1.0	"	50.0	ND	93.0	70-130	3.01	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	70-130			

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Project Number: NEP0909

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Origins Laboratory, Inc.



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