

804 Grand Ave.
Platteville, CO 80651



Tel: 970.785.5000
After Hours: 303.939.8585
Fax: 970.785.5099
www.nobleenergyinc.com

North America Division

Remediation #4460

March 31, 2011

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

RE: Groundwater Monitoring Results
UPRC 9-9K, 10K
API 05-123-16382
Sec. 9, T3N R66W
Weld County, Colorado

Dear Mr. Chesson:

Please find attached the Quarterly Groundwater Report for the UPRC 9-9K, 10K. 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 #4460

GROUNDWATER MONITORING REPORT MARCH 2011

UPRC 9, 9K, 10K TANK BATTERY

On March 1, 2011, Noble Energy, Inc. (Noble) contracted LT Environmental, Inc. (LTE) to conduct groundwater sampling at the UPRC 9, 9K, 10K Tank Battery (Site). This monitoring event constitutes the fourth post-remediation performance monitoring event at the Site. Site history, remediation activities, well installation, and performance monitoring results have been described in preceding reports.

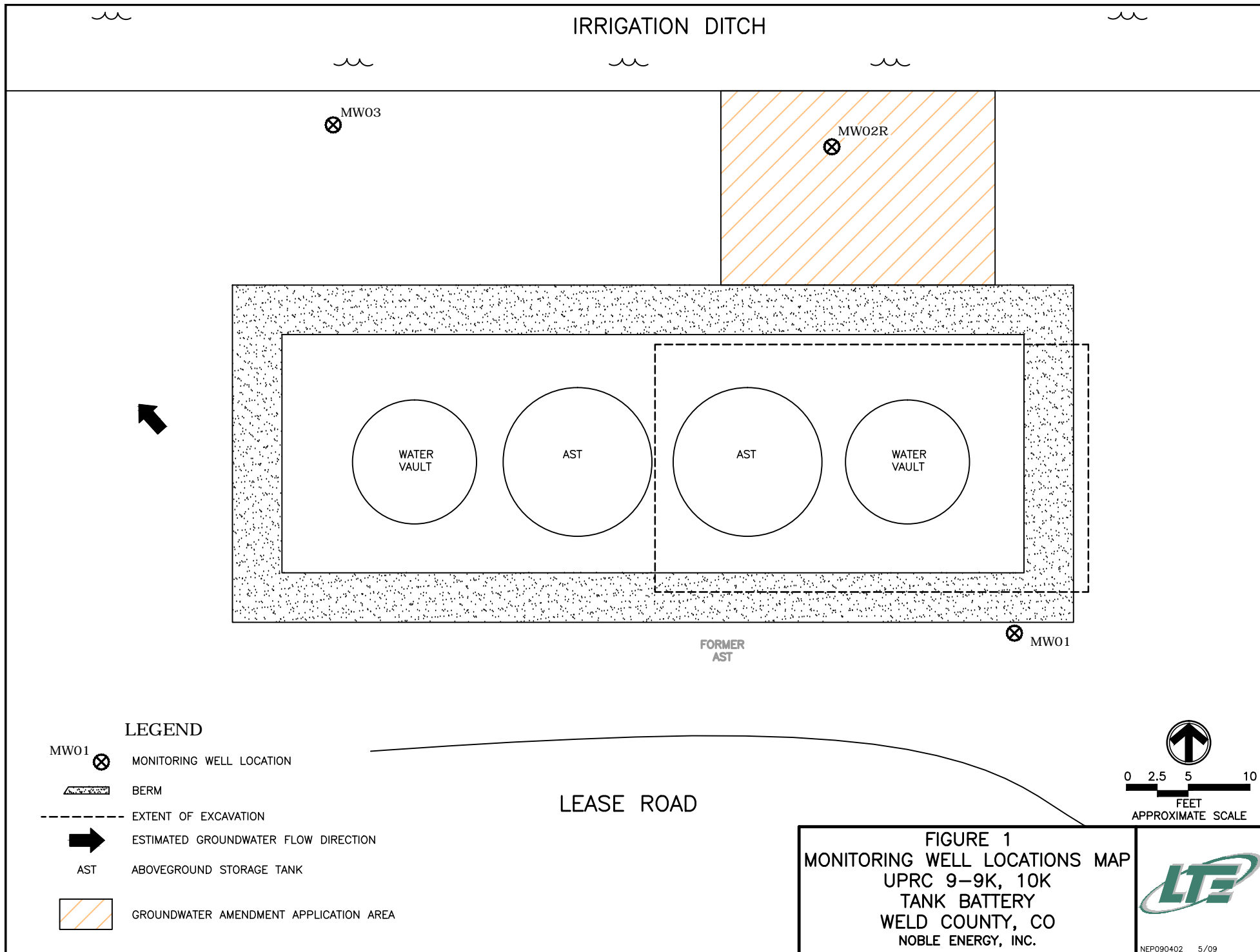
Monitoring wells (MW01, MW03, and MW02R) were installed on March 14, 2009 and June 1, 2010, respectively. The Site Map is presented as Figure 1. Groundwater level measurements were collected from the monitoring wells and are summarized in Table 1.

Depth to groundwater, which ranged from 6.89 feet below top of casing (btoc) in MW02R to 7.49 feet btoc in MW03, was used to calculate well-specific purge volumes. Following purging, samples were collected and 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 8260B.

Groundwater analytical results, presented in Table 1, indicate BTEX concentrations are in compliance with Colorado Department of Public Health and Environmental-Water Quality Control Commission Regulation 41 (WQCC Reg 41). The laboratory analytical report is included in the Appendix.

Noble will continue to conduct quarterly groundwater monitoring events with the goal of observing four consecutive quarters of analytical results in compliance with WQCC Reg 41. The next quarterly groundwater monitoring event is scheduled for June 2011.

FIGURE



TABLE

TABLE 1

**GROUNDWATER ANALYTICAL DATA
UPRC 9, 9K, 10K TANK BATTERY
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

MONITORING		DEPTH TO	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL
WELL	DATE	GROUNDWATER (feet btoc)	(ug/L)	(ug/L)	(ug/L)	XYLENES (ug/L)
MW01	4/28/2009	6.12	<1.0	<1.0	<1.0	<3.0
	8/25/2009	2.21	<1.0	<1.0	<1.0	<3.0
	11/19/2009	7.50	<1.0	<1.0	<1.0	<3.0
	2/16/2010	4.89	<1.0	<1.0	<1.0	<3.0
	6/15/2010	5.52	<1.0	<1.0	<1.0	<1.0
	9/20/2010	8.42	<1.0	<1.0	<1.0	<1.0
	12/7/2010	6.36	<1.0	<1.0	<1.0	<1.0
	3/1/2011	6.93	<1.0	<1.0	<1.0	<3.0
MW02	4/28/2009	6.52	<1.0	<1.0	<1.0	<3.0
	8/25/2009	2.16	<1.0	<1.0	<1.0	<3.0
	11/19/2009	7.74	29.1	<1.0	<1.0	<3.0
	2/16/2010	5.06	65.2	<1.0	<1.0	<3.0
MW02R	6/15/2010	5.58	40.0	<1.0	<1.0	<1.0
	9/20/2010	8.22	<1.0	<1.0	<1.0	<1.0
	12/7/2010	6.15	<1.0	<1.0	<1.0	<1.0
	3/1/2011	6.89	<1.0	<1.0	<1.0	<3.0
MW03	4/28/2009	6.69	2.70	<1.0	108	519.19
	8/25/2009	2.01	<1.0	<1.0	<1.0	<3.0
	11/19/2009	8.03	1.12	<1.0	24.3	23.5
	2/16/2010	5.15	<1.0	<1.0	<1.0	<3.0
	6/15/2010	6.25	<1.0	<1.0	1.9	<1.0
	9/20/2010	8.76	1.40	<1.0	2.87	<1.0
	12/7/2010	6.69	<1.0	<1.0	<1.0	<1.0
	3/1/2011	7.49	<1.0	<1.0	<1.0	<3.0
CDPHE WQCC Reg 41			5.0	560	700	1,400

NOTES:

btoc - below top of casing

ug/L - micrograms per liter

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

BOLD - indicates result exceeds the applicable regulatory 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

APPENDIX

LABORATORY ANALYTICAL REPORT



March 04, 2011

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Noble - UPRC 9, 9k- 10k

Project Number - NEP0904.03

Attached are you analytical results for Noble - UPRC 9, 9k- 10k received by Origins Laboratory, Inc. March 01, 2011. This project is associated with Origins project number X103012-01.

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



4640 North Pecos Street | Unit C | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Rob Rebel
Project Number: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	X103012-01	Water	March 1, 2011 11:50	03/01/2011 15:10
MW02R	X103012-02	Water	March 1, 2011 12:00	03/01/2011 15:10
MW03	X103012-03	Water	March 1, 2011 12:10	03/01/2011 15:10

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: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

MW01

3/1/2011 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X103012-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C02007	03/03/2011	03/04/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130	"	"	"
Surrogate: Toluene-d8	91.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.0 %	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

Rob Rebel
Project Number: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

MW02R

3/1/2011 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X103012-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C02007	03/03/2011	03/04/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130	"	"	"
Surrogate: Toluene-d8	91.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.1 %	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

Rob Rebel
Project Number: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

MW03
3/1/2011 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X103012-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C02007	03/03/2011	03/04/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	126 %	70-130			"	"	"
Surrogate: Toluene-d8	91.9 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	93.3 %	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

Rob Rebel
Project Number: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

Blank (1C02007-BLK1)

Prepared: 03/03/2011 Analyzed: 03/03/2011

Benzene	ND	1.00	ug/L							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
o-Xylene	ND	1.00	"							
Surrogate: 1,2-Dichloroethane-d4	74.2		"	62.5		119	70-130			
Surrogate: Toluene-d8	58.1		"	62.5		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	56.5		"	62.5		90.4	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: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

Blank (1C02007-BLK2)

Prepared: 03/03/2011 Analyzed: 03/03/2011

Benzene	ND	1.00	ug/L							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
o-Xylene	ND	1.00	"							
Surrogate: 1,2-Dichloroethane-d4	73.5		"	62.5	118	70-130				
Surrogate: Toluene-d8	58.2		"	62.5	93.1	70-130				
Surrogate: 4-Bromofluorobenzene	57.0		"	62.5	91.2	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

Rob Rebel
Project Number: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

LCS (1C02007-BS1)

Prepared: 03/03/2011 Analyzed: 03/03/2011

Benzene	50.2	1.00	ug/L	50.0	100	70-130
Toluene	48.3	1.00	"	50.0	96.6	70-130
Ethylbenzene	50.7	1.00	"	50.0	101	70-130
m,p-Xylene	112	2.00	"	100	112	70-130
o-Xylene	55.6	1.00	"	50.0	111	70-130
Surrogate: 1,2-Dichloroethane-d4	72.5		"	62.5	116	70-130
Surrogate: Toluene-d8	60.1		"	62.5	96.2	70-130
Surrogate: 4-Bromofluorobenzene	58.2		"	62.5	93.2	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

Rob Rebel
Project Number: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

LCS (1C02007-BS2)

Prepared: 03/03/2011 Analyzed: 03/03/2011

Benzene	50.7	1.00	ug/L	50.0	101	70-130
Toluene	48.8	1.00	"	50.0	97.7	70-130
Ethylbenzene	51.0	1.00	"	50.0	102	70-130
m,p-Xylene	112	2.00	"	100	112	70-130
o-Xylene	55.8	1.00	"	50.0	112	70-130
Surrogate: 1,2-Dichloroethane-d4	72.8		"	62.5	116	70-130
Surrogate: Toluene-d8	60.4		"	62.5	96.7	70-130
Surrogate: 4-Bromofluorobenzene	59.2		"	62.5	94.8	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

Rob Rebel
Project Number: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

Matrix Spike (1C02007-MS1)		Source: X102129-02			Prepared: 03/03/2011 Analyzed: 03/03/2011					
Benzene	52.3	1.00	ug/L	50.0	ND	105	70-130			
Toluene	50.0	1.00	"	50.0	ND	100	70-130			
Ethylbenzene	52.8	1.00	"	50.0	ND	106	70-130			
m,p-Xylene	111	2.00	"	100	ND	111	70-130			
o-Xylene	54.6	1.00	"	50.0	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	72.6		"	62.5		116	70-130			
Surrogate: Toluene-d8	60.4		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	59.6		"	62.5		95.4	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: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

Matrix Spike (1C02007-MS2)		Source: X102130-01			Prepared: 03/03/2011 Analyzed: 03/03/2011					
Benzene	52.7	1.00	ug/L	50.0	ND	105	70-130			
Toluene	48.3	1.00	"	50.0	ND	96.7	70-130			
Ethylbenzene	50.7	1.00	"	50.0	ND	101	70-130			
m,p-Xylene	98.5	2.00	"	100	ND	98.5	70-130			
o-Xylene	48.6	1.00	"	50.0	ND	97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	71.8		"	62.5		115	70-130			
Surrogate: Toluene-d8	59.4		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	59.1		"	62.5		94.5	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: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

Matrix Spike Dup (1C02007-MSD1)		Source: X102129-02			Prepared: 03/03/2011 Analyzed: 03/03/2011					
Benzene	52.8	1.00	ug/L	50.0	ND	106	70-130	0.913	20	
Toluene	49.8	1.00	"	50.0	ND	99.6	70-130	0.441	20	
Ethylbenzene	52.4	1.00	"	50.0	ND	105	70-130	0.932	20	
m,p-Xylene	104	2.00	"	100	ND	104	70-130	6.98	20	
o-Xylene	52.1	1.00	"	50.0	ND	104	70-130	4.58	20	
Surrogate: 1,2-Dichloroethane-d4	72.2		"	62.5		115	70-130			
Surrogate: Toluene-d8	60.2		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	59.4		"	62.5		95.0	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: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

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 1C02007 - EPA 5030B

Matrix Spike Dup (1C02007-MSD2)		Source: X102130-01			Prepared: 03/03/2011 Analyzed: 03/03/2011					
Benzene	51.4	1.00	ug/L	50.0	ND	103	70-130	2.50	20	
Toluene	48.6	1.00	"	50.0	ND	97.2	70-130	0.557	20	
Ethylbenzene	50.4	1.00	"	50.0	ND	101	70-130	0.613	20	
m,p-Xylene	102	2.00	"	100	ND	102	70-130	3.64	20	
o-Xylene	50.9	1.00	"	50.0	ND	102	70-130	4.62	20	
Surrogate: 1,2-Dichloroethane-d4	71.1		"	62.5		114	70-130			
Surrogate: Toluene-d8	59.5		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	59.4		"	62.5		95.1	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: NEP0904.03
Project: Noble - UPRC 9, 9k- 10k

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

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