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North America Division

July 15, 2011

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

RE: Ground Water Report and closure request letter
UPRC 9-9K, 10K
API 05-123-16382
NESE Sec. 9, T3N R66W
Weld County, Colorado

Dear Mr. Chesson:

Please find attached the Ground Water Report for the UPRC 9-9K, 10K. 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 blue ink that appears to read 'Mike Cox'.

Mike Cox
Environmental Coordinator

A handwritten signature in blue ink that appears to read 'Todd Cullum'.

Todd Cullum
Environmental Specialist

Attachments



GROUNDWATER MONITORING REPORT/ NO FURTHER ACTION REQUEST JUNE 2011

UPRC 9, 9K, 10K TANK BATTERY

On June 6, 2011, LT Environmental, Inc. (LTE), under the direction of Noble Energy, Inc. (Noble), conducted groundwater monitoring at the UPRC 9, 9K, 10K Tank Battery (Site). This monitoring event constitutes the fifth 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 April 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 6.08 feet below top of casing (btoc) in MW02R to 6.61 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 8260C.

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.

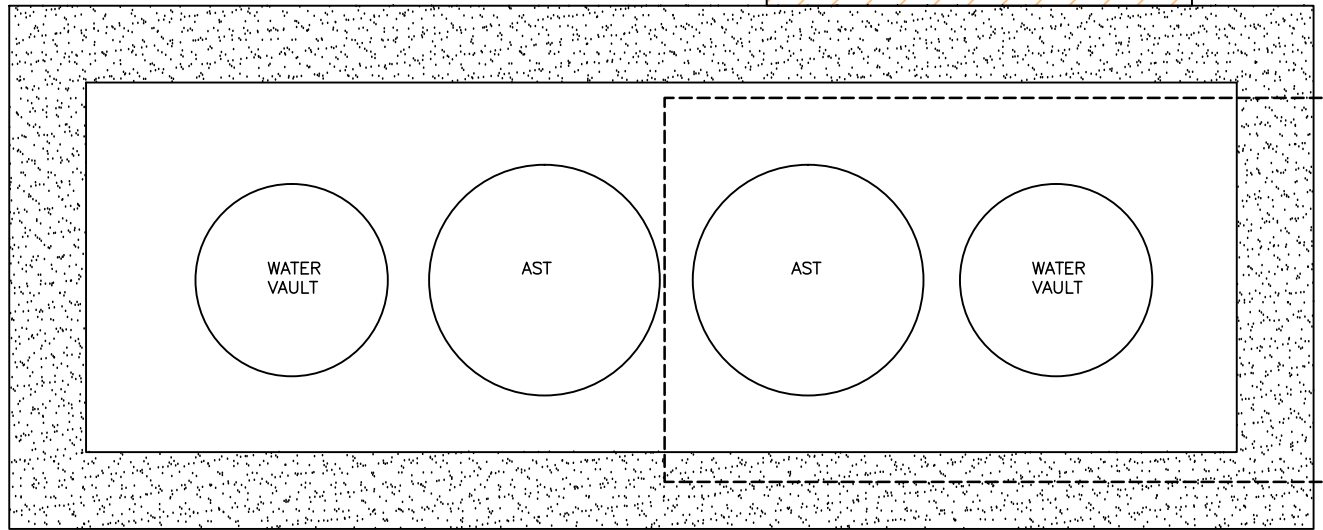
The June 2011 groundwater monitoring event constitutes the fourth consecutive quarterly monitoring event in which groundwater analytical results have been in compliance with WQCC Reg 41. As soil and groundwater have been remediated to achieve cleanup goals, Noble requests that the Colorado Oil and Gas Conservation Commission grant a No Further Action status for the UPRC 9, 9K, 10K Tank Battery.

FIGURE

IRRIGATION DITCH

MW03

MW02R



MW01

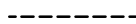
LEGEND



MONITORING WELL



BERM



EXTENT OF EXCAVATION



ESTIMATED GROUNDWATER FLOW DIRECTION

AST

ABOVEGROUND STORAGE TANK



GROUNDWATER AMENDMENT APPLICATION AREA

LEASE ROAD



0 2.5 5 10

FEET
APPROXIMATE SCALE

FIGURE 1
SITE MAP
UPRC 9,9K, 10K TANK BATTERY
WELD COUNTY, CO
NOBLE ENERGY, INC.



NEP090402 5/09

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)	(µg/L)	(µg/L)	(µg/L)	XYLENES (µg/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
	6/6/2011	6.23	<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
Destroyed						
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
	6/6/2011	6.08	<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
	6/6/2011	6.61	<1.0	<1.0	1.0	<3.0
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

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 Ground Water

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

APPENDIX

LABORATORY ANALYTICAL REPORT



June 08, 2011

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

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

Project Number - NEP0904

Attached are you analytical results for Noble - UPRC 9, 9k- 10k received by Origins Laboratory, Inc. June 06, 2011. This project is associated with Origins project number X106026-01.

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

Project Number: NEP0904
Project Name: Noble - UPRC 9, 9k- 10k

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	X106026-01	Water	June 6, 2011 13:40	06/06/2011 15:05
MW02R	X106026-02	Water	June 6, 2011 13:35	06/06/2011 15:05
MW03	X106026-03	Water	June 6, 2011 13:25	06/06/2011 15:05

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: NEP0904

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

www.originslaboratory.com

page 1 of 1

X106026

Client: LTE
Address:
Telephone Number:
Email Address:

Project Manager: Rob Rensel
Project Name: UPRC 9, 9k- 10k
Project Number: NEP0904
Samples Collected By: L. Heide G. Casson

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 #		
MW01	6-6-11	1340	2	X				X				Lab Filtered 1
MW02	6-6-11	1355	2	X				X				Lab Filtered 2
MW03	6-6-11	1325	2	X				X				Lab Filtered 3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: <u>gcl</u>	Date: <u>6/6/11</u>	Time: <u>1505</u>										Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: <u>gcl</u>	Date: <u>6/6/11</u>	Time: <u>1505</u>										Date Results Needed: <u>6-6-11 1505</u>

Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle, President

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

Project Number: NEP0904
Project Name: Noble - UPRC 9, 9k, 10k

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XK0022

Client: LTE Client Project ID: UPRC 9, 9k, 10k

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

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

Cooler ID	<u>N/A</u>				
Temp (°C)	<u>N/A</u>				

Thermometer ID: N/A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ? NOTE: If samples are delivered within 5 hours of sampling, this requirement is waived provided that there is evidence that cooling has begun.			<input checked="" type="checkbox"/>	<u>on ice</u>
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"/>		<u>Unpres</u>
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in the case narrative.				

DAVID MATHIS
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

06-06-11 1505
Date/Time

Origins Laboratory, Inc.

[Signature]

Noelle E Doyle, President

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

Project Number: NEP0904
Project Name: Noble - UPRC 9, 9k- 10k

MW01

6/6/2011 1:40:00PM

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

Origins Laboratory, Inc.
X106026-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1F07004	06/07/2011	06/07/2011
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	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: NEP0904
Project Name: Noble - UPRC 9, 9k- 10k

MW02R

6/6/2011 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X106026-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1F07004	06/07/2011	06/07/2011
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	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: NEP0904
Project Name: Noble - UPRC 9, 9k- 10k

MW03

6/6/2011 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X106026-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1F07004	06/07/2011	06/07/2011
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	1.0	1.0	"	"	"	"	"
Xylenes, total	ND	3.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Origins Laboratory, Inc.



Noelle E Doyle, President

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LT Environmental, Inc.
4600 West 60th Avenue

Arvada CO 80003

Project Number: NEP0904

Project Name: 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 1F07004 - EPA 5030B

Blank (1F07004-BLK1)

Prepared: 06/07/2011 Analyzed: 06/07/2011

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	65		"	62.5	104		70-130			
Surrogate: Toluene-d8	64		"	62.5	102		70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5	105		70-130			

Origins Laboratory, Inc.



Noelle E Doyle, President

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LT Environmental, Inc.
4600 West 60th Avenue

Arvada CO 80003

Project Number: NEP0904

Project Name: 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 1F07004 - EPA 5030B										
LCS (1F07004-BS1)					Prepared: 06/07/2011 Analyzed: 06/07/2011					
Benzene	46.1	1.0	ug/L	50.0		92.1	70-130			
Toluene	47.0	1.0	"	50.0		94.0	70-130			
Ethylbenzene	47.1	1.0	"	50.0		94.2	70-130			
m,p-Xylene	104	2.0	"	100		104	70-130			
o-Xylene	51.8	1.0	"	50.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		106	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

LT Environmental, Inc.
4600 West 60th Avenue

Arvada CO 80003

Project Number: NEP0904

Project Name: 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 1F07004 - EPA 5030B

LCS Dup (1F07004-BSD1)

Prepared: 06/07/2011 Analyzed: 06/07/2011

Benzene	47.0	1.0	ug/L	50.0		94.1	70-130	2.10	20	
Toluene	48.2	1.0	"	50.0		96.4	70-130	2.52	20	
Ethylbenzene	48.3	1.0	"	50.0		96.6	70-130	2.43	20	
m,p-Xylene	107	2.0	"	100		107	70-130	2.63	20	
o-Xylene	53.2	1.0	"	50.0		106	70-130	2.68	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



Noelle E Doyle, President

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LT Environmental, Inc.

4600 West 60th Avenue

Arvada

CO

80003

Project Number: NEP0904

Project Name: 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