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North America Division

GROUNDWATER MONITORING REPORT
OCTOBER 2009

RICE #1

On August 24, 2009, LT Environmental, Inc. (LTE) conducted groundwater sampling on behalf of Noble Energy, Inc. (Noble) at the Rice #1 Tank Battery (Site). This sampling event constitutes the forth post-remediation monitoring event at the Site. Site history, remediation activities, and groundwater monitoring results have been described in preceding reports.

Groundwater level measurements were collected from the monitoring wells and are summarized in Table 1. Monitoring wells (MW01, MW02, and MW03) were installed surrounding the tank battery excavation on October 29, 2008. A Site Map is presented on Figure 1.

Depth to groundwater, which ranged from 7.10 feet below top of casing (btoc) in MW03 to 9.35 feet btoc in MW01, was used to calculate well-specific purge volumes. Following purging, groundwater samples were collected and preserved on ice. Samples were then submitted under strict chain of custody protocol 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 indicate BTEX concentrations at monitoring wells MW01, MW02, and MW03 were in compliance with the Colorado Department of Public Health and Environment Water Quality Control Commission Regulation 41 (WQCC Reg 41). Analytical results are summarized in Table 1. The laboratory analytical report is attached as an Appendix.

This groundwater sampling event constitutes the fourth consecutive quarterly groundwater sampling event which has reported groundwater analytical results in compliance with WQCC Reg 41. As soil and groundwater have been remediated to achieve cleanup goals, LTE on behalf of Noble, requests that the Colorado Oil and Gas Conservation Commission grant a No Further Action condition for the Site.

TABLE

TABLE 1

GROUNDWATER ANALYTICAL DATA
RICE #1 TANK BATTERY
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.

MONITORING WELL	DATE	DEPTH TO WATER (feet btoc)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (ug/L)
MW01	11/5/2008	11.48	<1.0	<1.0	2.96	8.92
	2/6/2009	13.55	<1.0	<1.0	3.59	4.58
	5/13/2009	12.28	<1.0	<1.0	<1.0	<3.0
	8/24/2009	9.35	<1.0	<1.0	<1.0	<3.0
MW02	11/5/2008	12.03	<1.0	<1.0	5.79	52.27
	2/6/2009	13.95	<1.0	<1.0	12.6	16.1
	5/13/2009	13.38	<1.0	<1.0	8.81	12.7
	8/24/2009	9.24	<1.0	<1.0	<1.0	<3.0
MW03	11/5/2008			**Well Dry**		
	2/6/2009	14.05	4.06	1.74	1.63	15.12
	5/13/2009	14.98	1.81	<1.0	<1.0	2.89
	8/24/2009	7.1	<1.0	<1.0	<1.0	4.22
CDPHE WQCC Reg 41			**5.0**	**560**	**700**	**1,400**

NOTES:

btoc - below top of casing

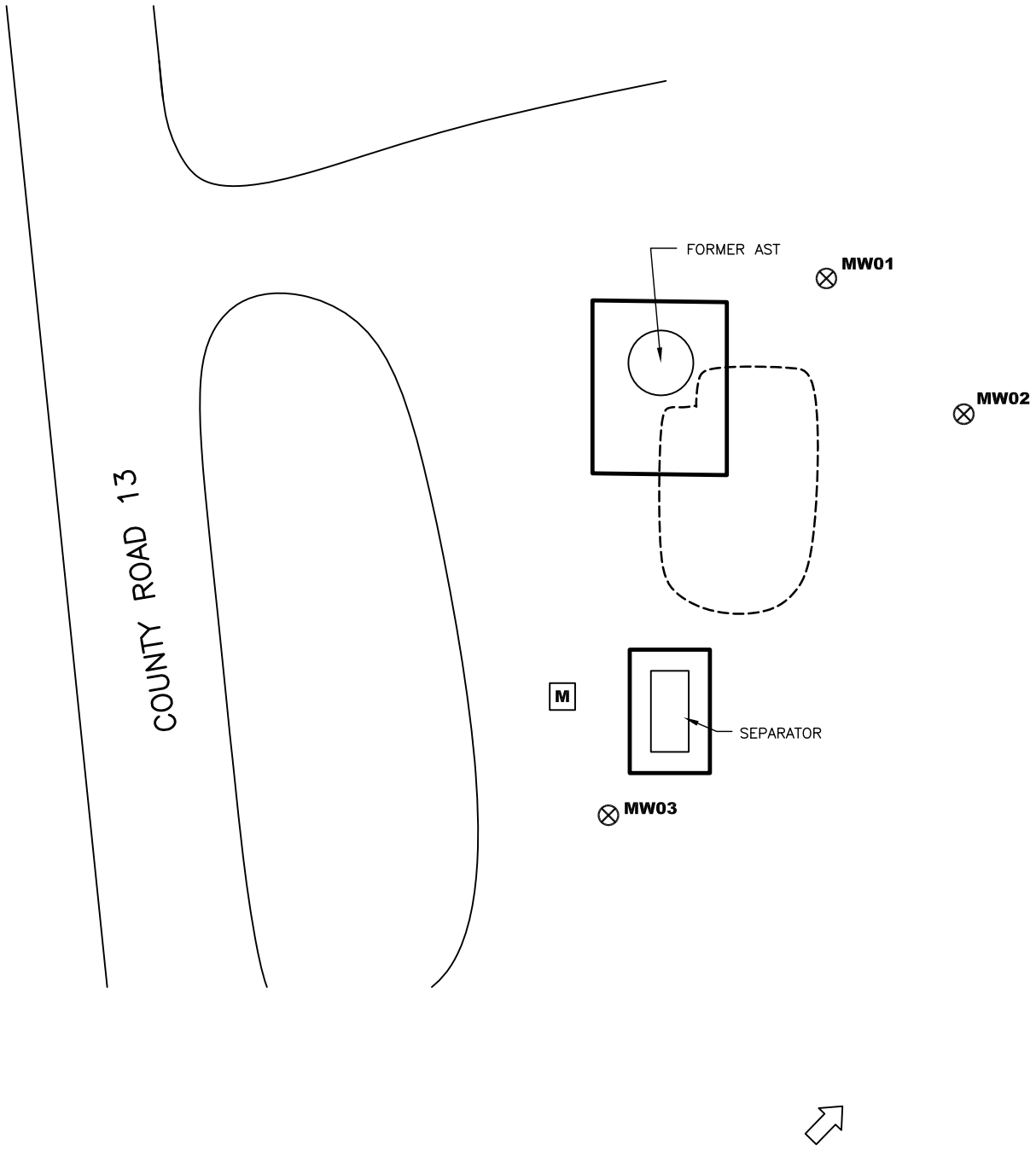
ug/L - micrograms per liter

< indicates result is less than the stated laboratory method detection limit

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 xylenes analyzed by EPA Method 8260B

FIGURE



LEGEND

MW01 ⊗ MONITORING WELL LOCATION

M METER HOUSE

BERM

EXTENT OF EXCAVATION

ESTIMATED GROUNDWATER FLOW DIRECTION

AST ABOVEGROUND STORAGE TANK

SOURCE: GOOGLEMAP.COM

0 12.5 25 50
FEET

FIGURE 1
SITE MAP
RICE #1 TANK BATTERY
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.

NEP083401 10/08

APPENDIX

ANALYTICAL REPORT

4640 Pecos Street | Unit C | Denver, Colorado 80211
303.433.1322 Phone 303.265.9645 Fax

October 09, 2009

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

Brian Dodek
Project Number: NEP0834
Project: Noble - Rice 1

Attached are the analytical results for Noble - Rice 1 received by Origins Laboratory, Inc. 8/24/2009 2:00:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Noelle E Doyle
Laboratory Manager

The analytical results in the following report were analyzed under the guidlines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entireity.

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0834
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CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
MW01	X908078-01	Water	8/24/2009 10:10:00AM	08/24/2009 14:00
MW02	X908078-02	Water	8/24/2009 10:15:00AM	08/24/2009 14:00
MW03	X908078-03	Water	8/24/2009 10:20:00AM	08/24/2009 14:00

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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MW01

X908078-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
BTEX by EPA 8260B								
Benzene	ND	0.00100	mg/L	1	9H25001	08/25/2009	08/25/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*98.4 %*	*85.7-134*			"	"	"	
Surrogate: Toluene-d8	*99.3 %*	*81.4-121*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*106 %*	*74.7-127*			"	"	"	

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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MW02

X908078-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	9H25001	08/25/2009	08/25/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	ND	0.00200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*98.0 %*	*85.7-134*			"	"	"	
Surrogate: Toluene-d8	*99.1 %*	*81.4-121*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*101 %*	*74.7-127*			"	"	"	

Origins Laboratory, Inc.

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MW03

X908078-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory, Inc.								
BTEX by EPA 8260B								
Benzene	ND	0.00100	mg/L	1	9H25001	08/25/2009	08/25/2009	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
o-Xylene	ND	0.00100	"	"	"	"	"	
m,p-Xylene	**0.00422**	0.00200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*85.7-134*			"	"	"	
Surrogate: Toluene-d8	*101 %*	*81.4-121*			"	"	"	
Surrogate: 4-Bromofluorobenzene	*108 %*	*74.7-127*			"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9H25001 - EPA 5030B										
Blank (9H25001-BLK1)					Prepared: 08/25/2009 Analyzed: 08/25/2009					
Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
o-Xylene	ND	0.001	"							
m,p-Xylene	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	*60.7*		*ug/L*	*62.5*		*97.1*	*85.7-134*			
Surrogate: Toluene-d8	*65.4*		*"*	*62.5*		*105*	*81.4-121*			
Surrogate: 4-Bromofluorobenzene	*60.4*		*"*	*62.5*		*96.7*	*74.7-127*			
LCS (9H25001-BS1)					Prepared: 08/25/2009 Analyzed: 08/25/2009					
Benzene	0.06	0.001	mg/L	0.0500		114	74.9-126			
Toluene	0.06	0.001	"	0.0500		121	73.3-128			
Surrogate: 1,2-Dichloroethane-d4	*61.8*		*ug/L*	*62.5*		*98.9*	*85.7-134*			
Surrogate: Toluene-d8	*63.6*		*"*	*62.5*		*102*	*81.4-121*			
Surrogate: 4-Bromofluorobenzene	*61.1*		*"*	*62.5*		*97.8*	*74.7-127*			
Matrix Spike (9H25001-MS1)		**Source: X908075-02**			Prepared: 08/25/2009 Analyzed: 08/25/2009					
Benzene	0.05	0.001	mg/L	0.0500	ND	100	78.1-132			
Toluene	0.06	0.001	"	0.0500	ND	122	71.7-124			
Surrogate: 1,2-Dichloroethane-d4	*41.6*		*ug/L*	*62.5*		*66.5*	*85.7-134*			*S-GC*
Surrogate: Toluene-d8	*75.8*		*"*	*62.5*		*121*	*81.4-121*			
Surrogate: 4-Bromofluorobenzene	*59.5*		*"*	*62.5*		*95.1*	*74.7-127*			
Matrix Spike Dup (9H25001-MSD1)		**Source: X908075-02**			Prepared: 08/25/2009 Analyzed: 08/25/2009					
Benzene	0.05	0.001	mg/L	0.0500	ND	106	78.1-132	5.75	24.8	
Toluene	0.06	0.001	"	0.0500	ND	130	71.7-124	6.41	25	QM-07
Surrogate: 1,2-Dichloroethane-d4	*42.8*		*ug/L*	*62.5*		*68.4*	*85.7-134*			*S-GC*
Surrogate: Toluene-d8	*77.0*		*"*	*62.5*		*123*	*81.4-121*			*S-GC*
Surrogate: 4-Bromofluorobenzene	*58.2*		*"*	*62.5*		*93.1*	*74.7-127*			

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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

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