

REMEDIATION SUMMARY REPORT

STATE 6-36 WELL SITE WELD COUNTY, COLORADO

NOVEMBER 2008

Prepared for:

**NOBLE ENERGY, INC.
Platteville, Colorado**



REMEDIATION SUMMARY REPORT

STATE 6-36 WELL SITE WELD COUNTY, COLORADO

NOVEMBER 2008

Prepared for:

**NOBLE ENERGY, INC.
804 Grand Avenue
Platteville, CO 80651**

Prepared by:

**LT ENVIRONMENTAL, INC.
4600 West 60th Avenue
Arvada, Colorado 80003
(303) 433-9788**



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EXECUTIVE SUMMARY

This report was prepared by LT Environmental, Inc. (LTE), on behalf of Noble Energy, Inc. (Noble), to document remediation activities at the State 6-36 Well Site (Site).

The Site is located in the northwest quarter of the northeast quarter of Section 36, Township 6 North, Range 67 West of the 6th principal meridian (Figure 1). The Site is located next to an agricultural field, approximately 50 feet north of the Cache La Poudre River (Figure 2).

The scope of work for this project included mitigation of petroleum hydrocarbon impacts following identification of a flowline release. This work included monitoring surface waters to ensure they were not impacted, the excavation/removal of hydrocarbon impacted groundwater and soils, confirmation sampling and analysis, documentation, and health and safety monitoring. Current use of the Site includes oil and gas production bordered by agricultural lands and the Cache La Poudre River.

Noble contractors began excavating impacted groundwater and soil at the site on October 7, 2008. LTE personnel were onsite for field observation, documentation, oversight activities, and directing soil removal from the excavated area. Impacted soils were hauled off to the North Weld Sanitary Landfill in Weld County, Colorado, and replaced with clean structural fill. A total volume of 920 cubic yards of impacted soil were excavated and removed during this project. A total volume of 285 barrels (11,970 gallons) of impacted groundwater was removed from exploratory potholes and transported to the Conquest Disposal Facility located in Weld County, Colorado. During excavation activities, LTE personnel were onsite to collect confirmation soil samples from the perimeter wall of the excavation. Following completion of source removal activities, LTE provided oversight as an activated carbon remediation amendment was installed in the base of the excavation to mitigate any residual hydrocarbons remaining from source removal activities.

Based on field indicators and the analytical results of the confirmation soil wall samples collected following excavation activities, the remaining soil has been remediated to below the Colorado Oil and Gas Conservation Commission (COGCC) Sensitive Area Standard for petroleum hydrocarbons.

LTE has installed three performance groundwater monitoring wells, and will perform quarterly sampling to determine if residual groundwater impacts exist at the Site. The locations of the performance groundwater monitoring wells are presented on Figure 2. The first quarterly monitoring event will be conducted in November 2008, with results to be discussed in future monitoring reports.

SECTION 1.0

INTRODUCTION

1.1 SITE DESCRIPTION

The Site is located in the northwest quarter of the northeast quarter of Section 36, Township 6 North, Range 67 West of the 6th principal meridian (Figure 1). The Site is located next to an agricultural field, approximately 50 feet north of the Cache La Poudre River (Figure 2).

The Site geology was predominantly silty, fine-grained sand that extended from the ground surface to depths ranging from approximately 2 feet to 4 feet below ground surface (bgs), underlain by fine to medium grained sand with gravel. Groundwater at the Site is approximately 2 to 6 feet bgs.

The Site is located at an elevation of approximately 4,720 feet above mean sea level in an area where topography gently slopes south to the Poudre River.

1.2 SURROUNDING LAND USE

The Site is surrounded by land used for agricultural and farming operations. The Poudre River is approximately 50 feet south of the Site.

1.3 SCOPE OF WORK

The scope of work for this remediation project included monitoring surface waters to ensure they were not impacted, and the removal of impacted groundwater and soils. Impacted groundwater was transported to Conquest Disposal located in Weld County, Colorado. Impacted soils were hauled off to the North Weld Sanitary Landfill in Weld County, Colorado and replaced with clean fill. A groundwater amendment was installed in the base of the excavation to reduce the potential for groundwater impact resulting from residual hydrocarbons.

During onsite excavation activities, Noble and LTE personnel conducted field screening of soils, soil sampling, oversight of the excavation, health and safety monitoring, application of the groundwater amendment, and documentation activities.

A summary of field activities, analytical results from surface water and soil sampling activities, and conclusions is presented in the subsequent sections.

SECTION 2.0

SUMMARY OF FIELD ACTIVITIES

The following section summarizes the methods and procedures used to monitor surface water, remove the impacted soils and groundwater, and install the groundwater amendment.

2.1 SURFACE WATER MONITORING

LTE conducted surface water monitoring of an un-named drainage that runs north/south through the Site, as shown on Figure 2. The drainage conveys irrigation water runoff from the northern agricultural property south to the Cache La Poudre River. Surface water was monitored to ensure that petroleum hydrocarbon impacts at the Site were not entering the drainage, a tributary of the Cache La Poudre River.

A total of six samples were collected from two monitoring events. The water samples were sent to Origins Laboratory, Inc. (Origins) of Denver, Colorado for analysis of total volatile hydrocarbons - gasoline range organics (TVH-GRO) and benzene, toluene, ethylbenzene, total xylenes (BTEX) using Environmental Protection Agency (EPA) 8260B.

2.2 EXCAVATION ACTIVITIES

Impacted Groundwater Removal

Prior to excavation, four exploratory potholes were excavated by Noble contractors to determine subsurface conditions. During excavation activities, 285 barrels (11,970 gallons) of groundwater were removed from the potholes. Groundwater was removed by a Northern Plains Transport Truck, with final disposal to Conquest Disposal in Weld County, Colorado.

Impacted Soil Removal

Excavation activities were initiated on October 7, 2008. During the period of October 7, 2008 through October 14, 2008, Noble contractors removed impacted groundwater and soils, and installed the groundwater amendment at the Site. The project was initiated on the east edge of the soil impact, and proceeded to the west and south as the work progressed. LTE personnel conducted field screening of organic vapor concentrations using a photoionization detector (PID) and collected confirmation soil samples to document excavation activities. Photographs of excavation activities are included as Appendix A.

The dimensions of the final excavation were approximately 50 feet long by 54 feet wide. The total depth of the excavation ranged from approximately 2 to 6 feet bgs, dependent on topography, impacted intervals, and the depth to groundwater. A total volume of 920

cubic yards of impacted soil was excavated and transported offsite to the North Weld Sanitary Landfill in Weld County, Colorado.

Soil samples were collected from the smear zone along the walls of the excavation. Each sample was field-screened for organic vapor concentrations with a PID to determine if additional excavation was required. Once PID measurements indicated that impacted soil had been removed, a confirmation sample was collected for submittal to an analytical laboratory. The presence of residual impact below the water table will be characterized through collection and analysis of groundwater samples, to be conducted and presented in future monitoring reports. Figure 2 represents the excavation extent and the locations of the soil samples collected in the excavation.

A total of twenty one samples (S-1 through S-21) were collected from the excavation. The soil samples collected were sent to Origins Laboratory, Inc. (Origins) of Denver, Colorado for analysis of TVH-GRO.

After confirmation sampling results indicated the impacted soils had been removed, the excavation was backfilled with clean fill and the finished with screened top soil. Fill materials were supplied by Varra Companies, Inc. of Greeley, Colorado.

2.3 GROUNDWATER AMENDMENT APPLICATION

As an added mitigation measure, a petroleum hydrocarbon groundwater amendment was used throughout the excavation. The remediation amendment is activated carbon inoculated with electron acceptors (nitrate and sulfate) and nutrients (phosphorus and nitrogen) designed to biodegrade petroleum hydrocarbons.

Shallow groundwater was observed at the Site at approximately 2 to 6 feet bgs. To reduce the potential for any further groundwater impact resulting from residual hydrocarbons, 850 pounds of groundwater amendment was applied to the entire extent of the base of the excavation after field indicators and confirmation sample results demonstrated the impacted soils were removed.

2.4 GROUNDWATER MONITORING

Groundwater monitoring wells were installed at the Site to be used as performance monitoring indicators. The wells will determine if impacted groundwater remains at the Site. Figure 2 presents the locations of the three monitoring wells at the Site. The monitoring wells will be used to monitor groundwater conditions until site closure status is achieved from the COGCC. Well sampling results will be presented in future quarterly monitoring reports.

SECTION 3.0

ANALYTICAL RESULTS

3.1 SURFACE WATER SAMPLES

Surface water samples were collected to ensure that surface water entering a tributary of the Cache La Poudre River was not impacted.

Analytical results indicate BTEX concentrations are below the Colorado Groundwater Quality Standards (CGWQS). Surface water analytical results are presented on Table 1. Copies of the laboratory analytical reports are included in Appendix B.

3.2 SOIL CONFIRMATION SAMPLES

Soil samples were collected to define the extent of the excavation and confirm that impact above regulatory standards was removed. Confirmation soil samples were collected from the smear zone along the walls of the excavation. Soil sample locations are illustrated on Figure 2. Soil samples were sent to Origins for analysis of TVH-GRO.

Analytical results indicate TVH-GRO was detected above the COGCC Sensitive Area Standard of 1,000 mg/kg for samples S-13 and S-17. Following receipt of the data, these areas were excavated to a greater extent until additional soil sample results indicated TVH-GRO was below the COGCC Sensitive Area Standard. Soil analytical results are summarized on Table 2.

Copies of the laboratory analytical reports are included as Appendix B.

Soil samples were not collected from the base of the excavation due to the shallow water table. The base of the excavation was at the static water level elevation of between 2 and 6 feet bgs. Future groundwater monitoring will be conducted to determine if residual groundwater impact exists. Groundwater sample analytical results from planned quarterly groundwater monitoring events will be submitted under separate cover.

SECTION 4.0

SUMMARY AND CONCLUSIONS

During the period of October 7, 2008 through October 14, 2008, Noble excavated and removed 920 cubic yards of impacted soil. Noble contractors also removed 285 barrels (11,970 gallons) of water from four exploratory potholes.

During remediation activities, evidence of impact to the subsurface was observed during excavation activities at depths of 2 feet to 6 feet bgs. LTE conducted field-screening of organic vapor concentrations and collection of soil confirmation samples for laboratory analysis from the excavated area.

Impacted soils were excavated and transported to the North Weld Sanitary Landfill in Weld County, Colorado and replaced with clean structural fill.

LTE collected soil samples following completion of the soil excavation activities. Analytical results from soil samples collected along all four walls of the excavation indicated that the petroleum impacted soils had been removed to below the COGCC Sensitive Area Standard and laboratory method detection limits.

To prevent any future impact from residual hydrocarbons, 850 pounds of a hydrocarbon degrading amendment were applied to the excavation base.

TABLES

TABLE 1

**SURFACE WATER ANALYTICAL RESULTS
STATE 6-36 WELL SITE
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

SAMPLE ID	DATE	TVH-GRO (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (ug/L)
SW-1	8/21/2008	<50	<1.00	<1.00	<1.00	<3.00
	9/17/2008	na	<1.00	<1.00	<1.00	<3.00
SW-2	8/21/2008	<50	<1.00	<1.00	<1.00	<3.00
	9/17/2008	na	<1.00	<1.00	<1.00	<3.00
SW-3	8/21/2008	<50	<1.00	1.03	<1.00	<3.00
	9/17/2008	na	<1.00	<1.00	<1.00	<3.00
CGWQS			5.0	1,000	700	1,400

NOTES:

TVH-GRO - Total Volatile Hydrocarbons - Gasoline range organics

TVH-GRO, benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8260B

na - not analyzed

ug/L - micrograms per liter

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

CGWQS - Colorado Groundwater Quality Standards



TABLE 2

**SOIL ANALYTICAL RESULTS
STATE 6-36 WELL SITE
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

Sample ID	Date	TVH-GRO (mg/kg)
S-1 (6')	10/7/2008	<50
S-2 (5')	10/7/2008	<50
S-3 (5.5')	10/8/2008	<50
S-4 (3')	10/8/2008	<50
S-5 (3')	10/8/2008	<50
S-6 (5')	10/9/2008	<50
S-7 (5')	10/9/2008	<50
S-8 (5')	10/9/2008	<50
S-9 (3')	10/9/2008	<50
S-10 (5')	10/9/2008	<50
S-11 (6')	10/10/2008	<50
S-12 (6')	10/10/2008	<50
S-13 (6')	10/13/2008	1,600
S-14 (6')	10/13/2008	143
S-15 (6')	10/13/2008	456
S-16 (6')	10/13/2008	<50
S-17 (6')	10/13/2008	2,050
S-18 (5')	10/14/2008	<50
S-19 (5')	10/14/2008	<50
S-20 (5')	10/14/2008	<50
S-21 (5')	10/14/2008	<50

COGCC Sensitive Area Standard*

1,000

Notes:

mg/kg - milligrams per kilogram

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

TVH-GRO - Total Volatile Hydrocarbons - Gasoline Range Organics

TVH-GRO by EPA Method 8015M

COGCC - Colorado Oil & Gas Conservation Commission

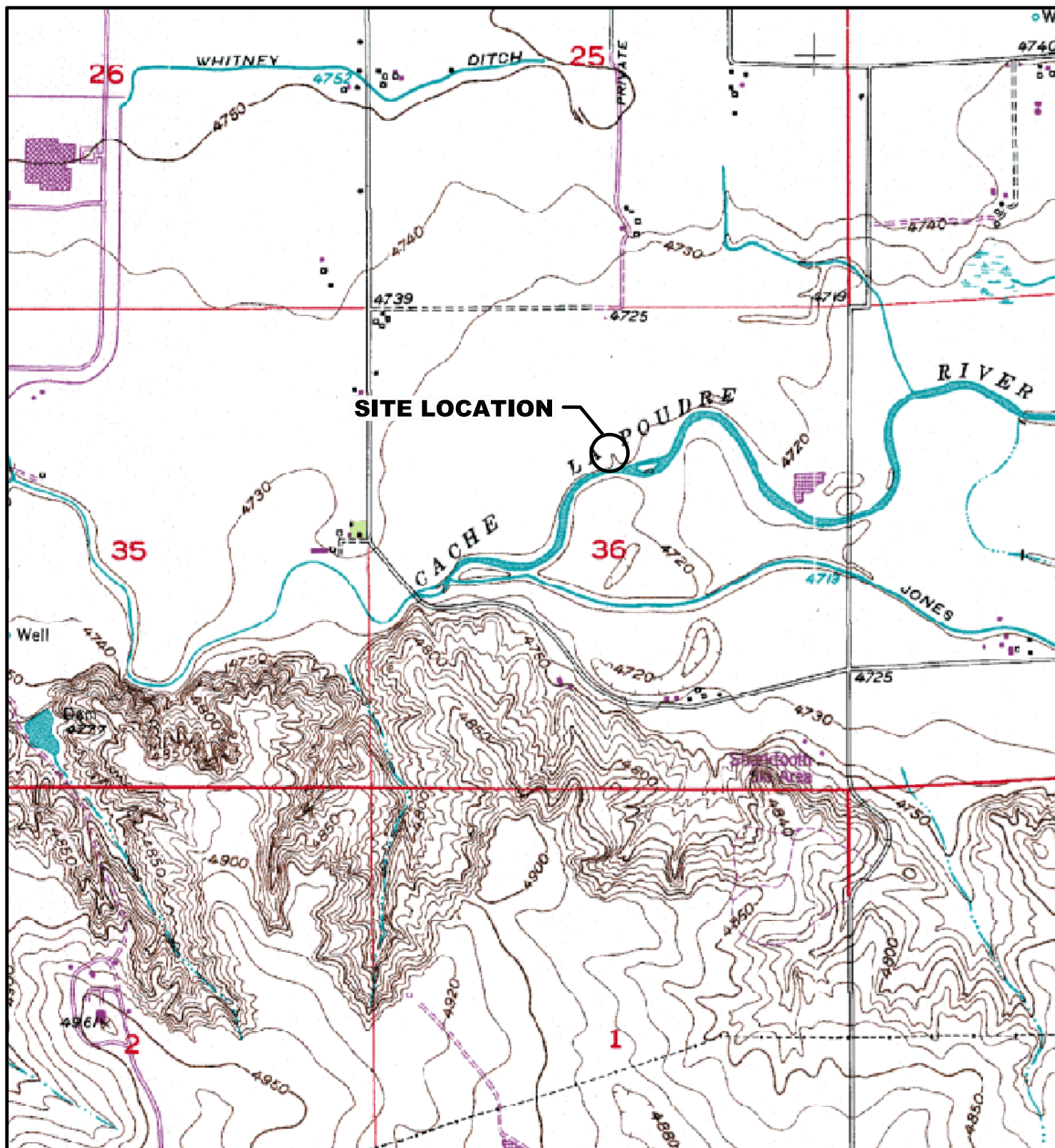
Sample results presented in **bold** indicate a result exceeding the COGCC Sensitive A

*Applies to contaminated subsurface soil >2 feet below ground surface

(bgs) and where the distance to groundwater is less than 20 feet bgs



FIGURES



LEGEND

○ SITE LOCATION



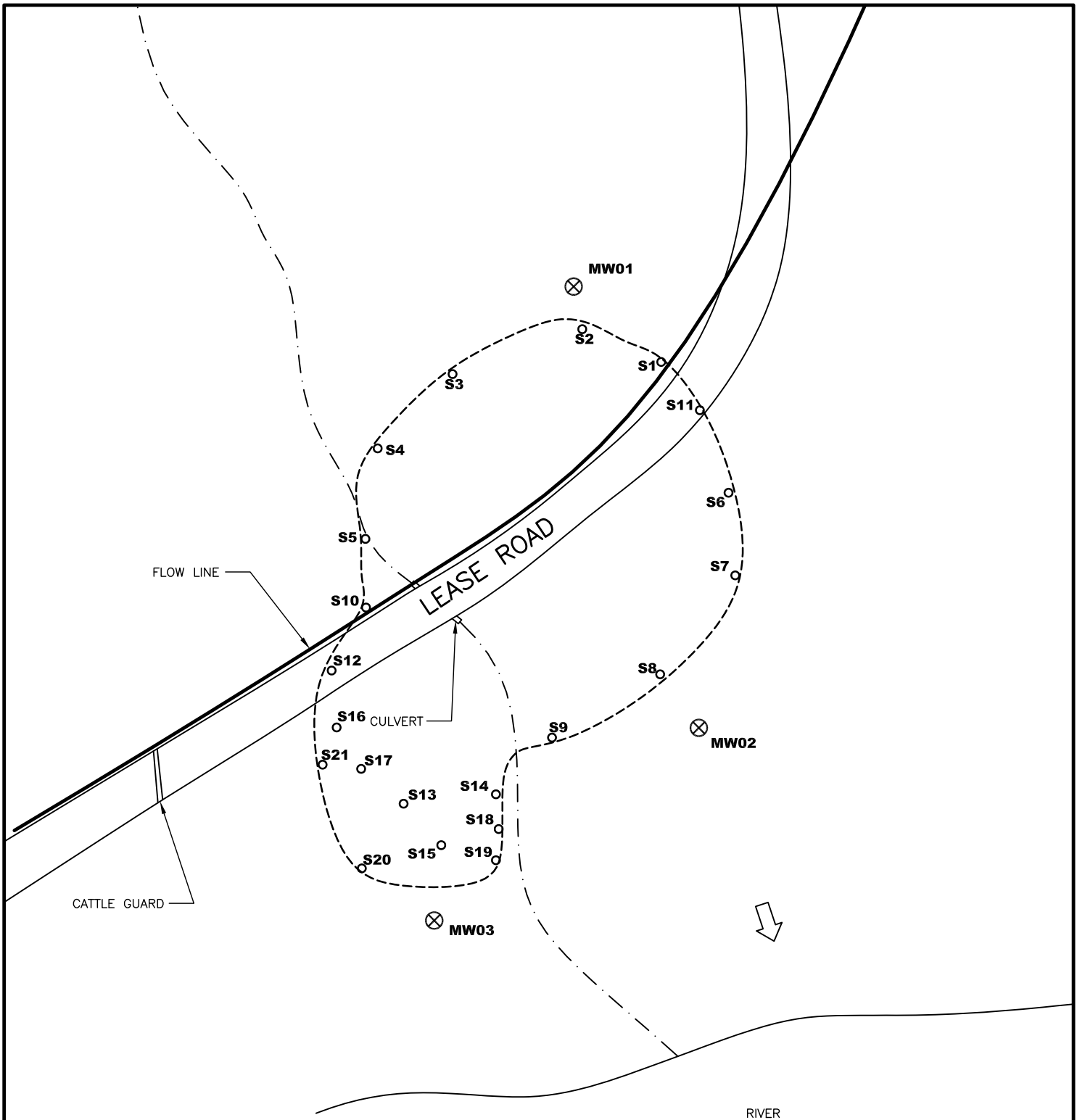
0 375 750 1500
FEET

SOURCE: TOPOZONE.COM
USGS 7.5' QUADRANGLE
(NAD27)

FIGURE 1
SITE LOCATION MAP
STATE 6-36 WELL SITE
WELD COUNTY, CO
NOBLE ENERGY, INC.



NEP0803201_SL 11/08



LEGEND

MW01 ⊗ MONITORING WELL LOCATION

S1 ○ SOIL SAMPLE LOCATION

----- EXTENT OF EXCAVATION

- . - . - DRAINAGE

➡ ESTIMATED GROUNDWATER FLOW DIRECTION

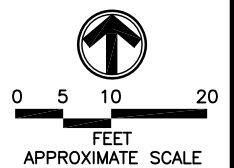
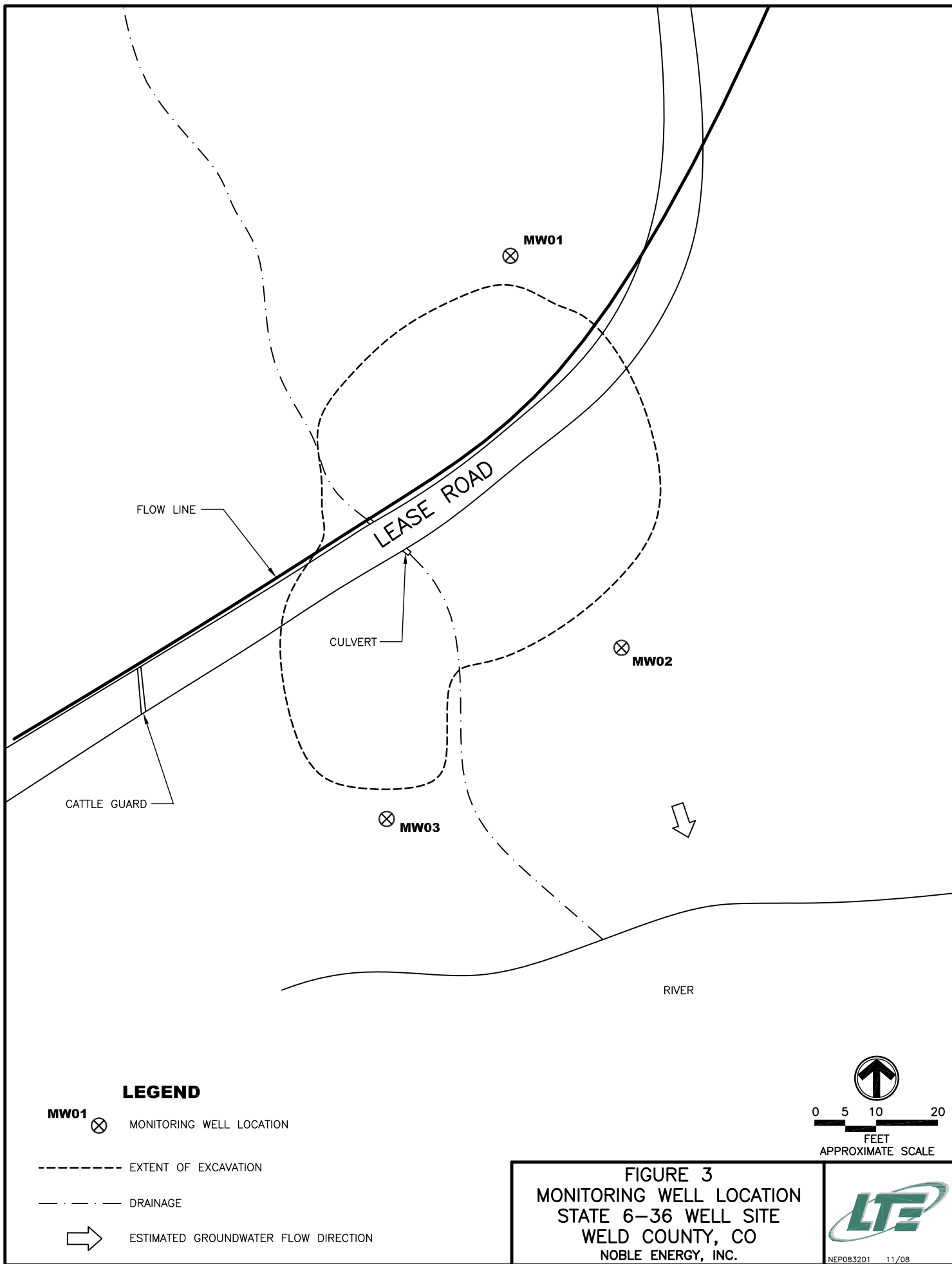


FIGURE 2
SITE MAP
STATE 6-36 WELL SITE
WELD COUNTY, CO
NOBLE ENERGY, INC.





APPENDIX A
SITE PHOTOGRAPHS





Photograph 1: Initiation of excavation activities. View west.



Photograph 2: Application of the groundwater amendment. View northwest.



Photograph 3: Excavation of impacted soil south of the lease road. View west.



Photograph 4: Application of groundwater amendment. View southwest.



Photograph 5: Application of the groundwater amendment. View east.

APPENDIX B
LABORATORY ANALYTICAL REPORTS





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

October 12, 2008

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

Brian Dodek
Project Number: [none]
Project: Noble State

Attached are the analytical results for Noble State received by Origins Laboratory, Inc. 10/9/2008 4:20:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager
Noelle E Doyle

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. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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



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

Brian Dodek
Project Number: [none]
Project: Noble State

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
S-6	X810027-01	Soil	10/9/2008 9:20:00AM	10/09/2008 16:20
S-7	X810027-02	Soil	10/9/2008 9:30:00AM	10/09/2008 16:20
S-8	X810027-03	Soil	10/9/2008 11:45:00AM	10/09/2008 16:20
S-9	X810027-04	Soil	10/9/2008 12:40:00PM	10/09/2008 16:20
S-10	X810027-05	Soil	10/9/2008 2:55:00PM	10/09/2008 16:20

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, Laboratory Manager



Brian Dodek

Project Number: [none]

Project: Noble State

Client Name & Address:		Client Project Name & Location:		ChemSolutions Project #:		
LTE		Noble State		Location Received: On-site Custody Seals: Intact Broken Absent	Base Lab	
Contact Person: Brian Puck				Date/Time Refrigerated:		
Phone #:		Client Project Number:				
E-mail:		Invoice to:				
Sample Description	Date Sampled	Time Sampled	Matrix	# of Containers	Requested Analysis	Remarks
S-6	10/9	0920	Soil	1	X	
S-7	↓	930	↓	1	X	
S-8	↓	1145	↓	1	X	
S-9	↓	1240	↓	1	X	
S-10	↓	1455	↓	1	X	
Sampled and Re-Invoiced by: [Signature]	Date: 10/10/08	Time: 1520	Received by: [Signature]	Date: 10/16/08	Time: 1520	
Re-Invoiced by: [Signature]	Date: 10/16/08	Time: 1520	Received by: [Signature]	Date: 10/19/08	Time: 1520	
Re-Invoiced by: [Signature]	Date: 10/19/08	Time: 1520	Received by: [Signature]	Date: 10/19/08	Time: 1520	

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Page 3 of 10

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

Brian Dodek
Project Number: [none]
Project: Noble State

S-6
X810027-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
-------------------	----	------	-------	---	---------	------------	------------

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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.

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

Brian Dodek
Project Number: [none]
Project: Noble State

S-7
X810027-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008	
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: [none]
Project: Noble State

S-8
X810027-03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: [none]
Project: Noble State

S-9
X810027-04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: [none]
Project: Noble State

S-10

X810027-05 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: [none]
Project: Noble State

Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J10001 – Default Prep GC-Semi										
Blank (8J10001-BLK1)					Prepared: 10/10/2008 Analyzed: 10/10/2008					
Gasoline (C6-C10)	ND	50.0	mg/kg							
LCS (8J10001-BS1)					Prepared: 10/10/2008 Analyzed: 10/10/2008					
Gasoline (C6-C10)	209	50.0	mg/kg	200		105	65-135			
Matrix Spike (8J10001-MS1)					Source: X810027-01		Prepared: 10/10/2008 Analyzed: 10/10/2008			
Gasoline (C6-C10)	216	50.0	mg/kg	200	ND	108	65-135			
Matrix Spike Dup (8J10001-MSD1)					Source: X810027-01		Prepared: 10/10/2008 Analyzed: 10/10/2008			
Gasoline (C6-C10)	204	50.0	mg/kg	200	ND	102	65-135	5.71	25	

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: [none]
Project: Noble State

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, Laboratory Manager



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October 12, 2008

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

Brian Dodek
Project Number: NEP0832
Project: Noble State

Attached are the analytical results for Noble State received by Origins Laboratory, Inc. 10/10/2008 10:00:00AM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager
Noelle E Doyle

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. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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LT Environmental, Inc.
4600 West 60th Avenue
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Brian Dodek
Project Number: NEP0832
Project: Noble State

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
S-1 (6')	X810028-01	Soil	10/7/2008 2:35:00PM	10/10/2008 10:00
S-2 (5')	X810028-02	Soil	10/7/2008 2:30:00PM	10/10/2008 10:00

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Brian Dodek
Project Number: NEP0832
Project: Noble State

XX10028
page 1 of 1



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Client: LT
Address: 4600 West 60th Avenue
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E-Mail Address: LT@ltenv.com
Project Manager: BDD
Project Name: NEP0832
Project Number: NEP0832
Samples Collected by: BDD

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other -	Groundwater	Soil		
3-1 (6)	10-10-08	14:35	1	X							1
3-2 (5)	10-10-08	14:30	1	X							2
											3
											4
											5
											6
											7
											8
											9
											10
Relinquished by: <u>BDD</u>	Date: <u>10-10-08</u>	Time: <u>10:00</u>		Received by: <u>[Signature]</u>	Date: <u>10-10-08</u>	Time: <u>10:00</u>		Temperature Upon Receipt: <u>Standard</u>			
Relinquished by: <u>[Signature]</u>	Date: <u>10-10-08</u>	Time: <u>10:00</u>		Received by: <u>[Signature]</u>	Date: <u>10-10-08</u>	Time: <u>10:00</u>		Turn Around Time: <u>24-hr</u>			

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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0832
Project: Noble State

S-1 (6')

X810028-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

Brian Dodek
Project Number: NEP0832
Project: Noble State

S-2 (5')

X810028-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Brian Dodek
Project Number: NEP0832
Project: Noble State

Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J10001 – Default Prep GC-Semi										
Blank (8J10001-BLK1)					Prepared: 10/10/2008 Analyzed: 10/10/2008					
Gasoline (C6-C10)	ND	50.0	mg/kg							
LCS (8J10001-BS1)					Prepared: 10/10/2008 Analyzed: 10/10/2008					
Gasoline (C6-C10)	209	50.0	mg/kg	200		105	65-135			
Matrix Spike (8J10001-MS1)					Source: X810027-01		Prepared: 10/10/2008 Analyzed: 10/10/2008			
Gasoline (C6-C10)	216	50.0	mg/kg	200	ND	108	65-135			
Matrix Spike Dup (8J10001-MSD1)					Source: X810027-01		Prepared: 10/10/2008 Analyzed: 10/10/2008			
Gasoline (C6-C10)	204	50.0	mg/kg	200	ND	102	65-135	5.71	25	

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0832
Project: Noble State

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, Laboratory Manager



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October 12, 2008

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

Brian Dodek
Project Number: [none]
Project: Noble State 6-36

Attached are the analytical results for Noble State 6-36 received by Origins Laboratory, Inc. 10/8/2008 5:30:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager
Noelle E Doyle

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. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: [none]
Project: Noble State 6-36

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
S-3	X810029-01	Soil	10/8/2008 10:00:00AM	10/08/2008 17:30
S-4	X810029-02	Soil	10/8/2008 2:25:00PM	10/08/2008 17:30
S-5	X810029-03	Soil	10/8/2008 3:00:00PM	10/08/2008 17:30

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: [none]
Project: Noble State 6-36

1810029
page 1 of 1



originslaboratory.com

Client: LTEN
Address: 4600 West 60th Avenue
Telephone Number: 303.433.1322
E-Mail Address: brian.dodek@originslab.com
Project Manager: Brian Dodek
Project Name: Noble State 6-36
Project Number: 1810029
Samples Collected by: MSA

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other - H ₂ O			
S-3	10/2/15	1000	1	X				Air - Summa Canister #		1
S-4	10/2/15	1445	1	X				Soil		2
S-5	10/2/15	1500	1	X				Groundwater		3
								Other -		4
										5
										6
										7
										8
										9
										10

Relinquished by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:
M. J. [Signature]	10/2/15	1700	[Signature]	10/2/15	17:30	Turn Around Time: 24-hr X

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Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: [none]
Project: Noble State 6-36

S-3

X810029-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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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, Laboratory Manager

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LT Environmental, Inc.
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Brian Dodek
Project Number: [none]
Project: Noble State 6-36

S-4

X810029-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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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.

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Brian Dodek
Project Number: [none]
Project: Noble State 6-36

S-5
X810029-03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J10001	10/10/2008	10/10/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

Brian Dodek
Project Number: [none]
Project: Noble State 6-36

Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J10001 – Default Prep GC-Semi										
Blank (8J10001-BLK1)					Prepared: 10/10/2008 Analyzed: 10/10/2008					
Gasoline (C6-C10)	ND	50.0	mg/kg							
LCS (8J10001-BS1)					Prepared: 10/10/2008 Analyzed: 10/10/2008					
Gasoline (C6-C10)	209	50.0	mg/kg	200		105	65-135			
Matrix Spike (8J10001-MS1)					Source: X810027-01		Prepared: 10/10/2008 Analyzed: 10/10/2008			
Gasoline (C6-C10)	216	50.0	mg/kg	200	ND	108	65-135			
Matrix Spike Dup (8J10001-MSD1)					Source: X810027-01		Prepared: 10/10/2008 Analyzed: 10/10/2008			
Gasoline (C6-C10)	204	50.0	mg/kg	200	ND	102	65-135	5.71	25	

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

Brian Dodek
Project Number: [none]
Project: Noble State 6-36

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, Laboratory Manager



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October 14, 2008

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

Brian Dodek
Project Number: NEP0832
Project: State 6-36

Attached are the analytical results for State 6-36 received by Origins Laboratory, Inc. 10/13/2008 2:18:00PM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle", is written in a cursive style.

Laboratory Manager
Noelle E Doyle

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
S-13 @ 6	X810035-01	Soil	10/13/2008 12:00:00PM	10/13/2008 14:18
S-14 @ 6	X810035-02	Soil	10/13/2008 12:05:00PM	10/13/2008 14:18
S-15 @ 6	X810035-03	Soil	10/13/2008 11:40:00AM	10/13/2008 14:18
S-16 @ 6	X810035-04	Soil	10/13/2008 11:50:00AM	10/13/2008 14:18
S-17 @ 6	X810035-05	Soil	10/13/2008 12:10:00PM	10/13/2008 14:18

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

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Naule G.

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

S-13 @ 6

X810035-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	1600	50.0	mg/kg	1	8J13001	10/13/2008	10/13/2008
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Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

S-14 @ 6
X810035-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	143	50.0	mg/kg	1	8J13001	10/13/2008	10/13/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

S-15 @ 6
X810035-03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	456	50.0	mg/kg	1	8J13001	10/13/2008	10/13/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

S-16 @ 6
X810035-04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J13001	10/13/2008	10/13/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

S-17 @ 6
X810035-05 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	2050	50.0	mg/kg	1	8J13001	10/13/2008	10/13/2008	
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0832
Project: State 6-36

Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 8J13001 – Default Prep GC-Semi									
Blank (8J13001-BLK1)					Prepared: 10/13/2008 Analyzed: 10/13/2008				
Gasoline (C6-C10)	ND	50.0	mg/kg						
LCS (8J13001-BS1)					Prepared: 10/13/2008 Analyzed: 10/13/2008				
Gasoline (C6-C10)	213	50.0	mg/kg	200	107	65-135			
LCS Dup (8J13001-BSD1)					Prepared: 10/13/2008 Analyzed: 10/13/2008				
Gasoline (C6-C10)	222	50.0	mg/kg	200	111	65-135	4.23	25	

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

Brian Dodek
Project Number: NEP0832
Project: State 6-36

Notes and Definitions

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

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager



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303.433.1322 Phone 303.265.9645 Fax

October 14, 2008

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

Brian Dodek
Project Number: [none]
Project: Noble State

Attached are the analytical results for Noble State received by Origins Laboratory, Inc. 10/13/2008 4:00:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager
Noelle E Doyle

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. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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Arvada CO 80003

Brian Dodek
Project Number: [none]
Project: Noble State

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
S-11	X810036-01	Soil	10/10/2008 8:30:00AM	10/13/2008 16:00
S-12	X810036-02	Soil	10/10/2008 1:00:00PM	10/13/2008 16:00

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: [none]
Project: Noble State

1810036
page 1 of 1



originslaboratory.com

Client: LT ENV.
Address: _____
Telephone Number: _____
E-Mail Address: _____
Project Manager: Brian Dodek
Project Name: Noble State
Project Number: _____
Samples Collected by: MSH

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative			Matrix			Analysis										
				Unpreserved	HCl	HNO ₃	Other - ICF	Groundwater	Soil		Air - Summa Canister #	Other -								
S-11	10/10	0830	1	X						X X GPO Polym										
S-12	10/10	1300	1	X																

Requisitioned by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:
	10/13/08	16:00		10/13/08	16:00	

Requisitioned by:	Date	Time	Received by:	Date	Time	Turn Around Time:
	10/13/08	16:00		10/13/08	16:00	24-hr
						48-hr
						72-hr

Standard

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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: [none]
Project: Noble State

S-11

X810036-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J13001	10/13/2008	10/13/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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.

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: [none]
Project: Noble State

S-12

X810036-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J13001	10/13/2008	10/13/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Denver, Colorado 80211
303.433.1322 | Laboratory
303.265.9645 | Fax



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

Brian Dodek
Project Number: [none]
Project: Noble State

Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 8J13001 – Default Prep GC-Semi									
Blank (8J13001-BLK1)					Prepared: 10/13/2008 Analyzed: 10/13/2008				
Gasoline (C6-C10)	ND	50.0	mg/kg						
LCS (8J13001-BS1)					Prepared: 10/13/2008 Analyzed: 10/13/2008				
Gasoline (C6-C10)	213	50.0	mg/kg	200	107	65-135			
LCS Dup (8J13001-BSD1)					Prepared: 10/13/2008 Analyzed: 10/13/2008				
Gasoline (C6-C10)	222	50.0	mg/kg	200	111	65-135	4.23	25	

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: [none]
Project: Noble State

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, Laboratory Manager



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October 17, 2008

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

Attached are the analytical results for State 6-36 received by Origins Laboratory, Inc. 10/15/2008 10:32:00AM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle", is written in a cursive style.

Laboratory Manager
Noelle E Doyle

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. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
S-18 (5')	X810039-01	Soil	10/14/2008 11:45:00AM	10/15/2008 10:32
S-19 (5')	X810039-02	Soil	10/14/2008 1:40:00PM	10/15/2008 10:32
S-20 (5')	X810039-03	Soil	10/14/2008 2:30:00PM	10/15/2008 10:32
S-21 (5')	X810039-04	Soil	10/14/2008 3:00:00PM	10/15/2008 10:32

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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.

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

1810039
page 1 of 1



originslaboratory.com

Client: LT Environmental
Address: 4600 W 60 Ave
Arvada, CO 80003
Telephone Number: 303-433-9788
E-Mail Address: _____
Project Manager: Brian Dodek
Project Name: State 6-36
Project Number: NEP0831
Samples Collected by: Eric Dodek

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air - Summa Canister #	Other	Analysis	
S-18 (S)	10-14	1145	1 X										1
S-19 (S)	10-14	1240	1 X										2
S-20 (S)	10-14	1430	1 X										3
S-21 (S)	10-14	1500	1 X										4
													5
													6
													7
													8
													9
													10
Relinquished by: <u>Eric Dodek</u>	Date: <u>10-15-08</u>	Time: <u>10:30</u>	Received by: _____	Date: _____	Time: _____	Temperature User Receipt: _____	Turn Around Time: _____	Same Day _____	24-hr _____	48-hr _____	72-hr _____		
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: <u>10/15/08</u>	Time: <u>10:50</u>								

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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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.

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

S-18 (5')

X810039-01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J15001	10/15/2008	10/15/2008
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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.

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

S-19 (5')

X810039-02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J15001	10/15/2008	10/15/2008
-------------------	----	------	-------	---	---------	------------	------------

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, Laboratory Manager

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

S-20 (5')

X810039-03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J15001	10/15/2008	10/15/2008
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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, Laboratory Manager

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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

S-21 (5')

X810039-04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Gasoline Range Organics (GRO) by EPA 8015M

Gasoline (C6-C10)	ND	50.0	mg/kg	1	8J15001	10/15/2008	10/15/2008
-------------------	----	------	-------	---	---------	------------	------------

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

Extractable Petroleum Hydrocarbons by 8015M – Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8J15001 – Default Prep GC-Semi										
Blank (8J15001-BLK1)					Prepared: 10/15/2008 Analyzed: 10/15/2008					
Gasoline (C6-C10)	ND	50.0	mg/kg							
LCS (8J15001-BS1)					Prepared: 10/15/2008 Analyzed: 10/15/2008					
Gasoline (C6-C10)	218	50.0	mg/kg	200		109	65-135			
Matrix Spike (8J15001-MS1)					Source: X810039-03		Prepared: 10/15/2008 Analyzed: 10/15/2008			
Gasoline (C6-C10)	214	50.0	mg/kg	200	ND	107	65-135			
Matrix Spike Dup (8J15001-MSD1)					Source: X810039-03		Prepared: 10/15/2008 Analyzed: 10/15/2008			
Gasoline (C6-C10)	197	50.0	mg/kg	200	ND	98.7	65-135	7.90	25	

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

Notes and Definitions

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

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager



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September 02, 2008

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

Attached are the analytical results for State 6-36 received by Origins Laboratory, Inc. 8/22/2008 9:45:00AM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager
Noelle E Doyle

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. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
SW-1	X808063-01	Water	8/21/2008 3:50:00PM	08/22/2008 09:45
SW-2	X808063-02	Water	8/21/2008 3:40:00PM	08/22/2008 09:45
SW-3	X808063-03	Water	8/21/2008 4:00:00PM	08/22/2008 09:45

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

page 1 of 1



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Client: LT Environmental
Address: 4600 W 60th Ave
Arvada, CO 80003
Telephone Number: On file
E-Mail Address: On file
Project Manager: BOD
Project Name: State 6-36
Project Number: NEP0831
Samples Collected by: BOD

Sample ID - Description	Date Sampled	Time Sampled	Preservative				Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other -	Groundwater	Soil	Air - Summa Canister #		
SW-1	8-21-08	15:50	X	X						X X X L B T E X 9060	1
SW-2	8-21-08	15:40	X	X							2
SW-3	8-21-08	16:00	X	X							3
											4
											5
											6
											7
											8
											9
											10
Relinquished by: BOD	Date: 8-22-08	Time: 9:45	Received by:	Date:	Time:	Temperature Upon Receipt:			Turn Around Time:		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Same Day	24-hr	48-hr	72-hr		

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Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Brian Dodek
Project Number: NEP0831
Project: State 6-36

SW-1

X808063-01 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

GBTEX by EPA 8260B

Gasoline Range Hydrocarbons	ND	50.0	ug/L	1	8H28001	08/28/2008	08/28/2008
Benzene	ND	1.00	"	"	"	"	"
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70.3-123	"	"	"
Surrogate: Toluene-d8	95.4 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	83-123	"	"	"

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0831
Project: State 6-36

SW-2

X808063-02 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

GBTEX by EPA 8260B

Gasoline Range Hydrocarbons	ND	50.0	ug/L	1	8H28001	08/28/2008	08/28/2008
Benzene	ND	1.00	"	"	"	"	"
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	70.3-123	"	"	"
Surrogate: Toluene-d8	92.4 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	94.4 %	83-123	"	"	"

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

SW-3

X808063-03 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

GBTEX by EPA 8260B

Gasoline Range Hydrocarbons	ND	50.0	ug/L	1	8H28001	08/28/2008	09/01/2008
Benzene	ND	1.00	"	"	"	"	"
Toluene	1.03	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	83.5 %	70.3-123	"	"	"
Surrogate: Toluene-d8	101 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	90.7 %	83-123	"	"	"

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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 4600 West 60th Avenue
 Arvada CO 80003

Brian Dodek
 Project Number: NEP0831
 Project: State 6-36

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
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Batch 8H28001 – EPA 5030B

Blank (8H28001-BLK1)

Prepared: 08/28/2008 Analyzed: 08/28/2008

Gasoline Range Hydrocarbons	ND	50.0	ug/L
Benzene	ND	1.00	"
Toluene	ND	1.00	"
Ethylbenzene	ND	1.00	"
m,p-Xylene	ND	2.00	"
o-Xylene	ND	1.00	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>68.4</i>		<i>"</i>	<i>62.5</i>	<i>110</i>	<i>70.3-123</i>
<i>Surrogate: Toluene-d8</i>	<i>56.6</i>		<i>"</i>	<i>62.5</i>	<i>90.6</i>	<i>75.9-123</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>64.2</i>		<i>"</i>	<i>62.5</i>	<i>103</i>	<i>83-123</i>

LCS (8H28001-BS1)

Prepared: 08/28/2008 Analyzed: 08/28/2008

Benzene	48.2	1.00	ug/L	50.0	96.4	64.2-124
Toluene	42.5	1.00	"	50.0	85.0	63.9-119
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>73.2</i>		<i>"</i>	<i>62.5</i>	<i>117</i>	<i>70.3-123</i>
<i>Surrogate: Toluene-d8</i>	<i>58.0</i>		<i>"</i>	<i>62.5</i>	<i>92.8</i>	<i>75.9-123</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>61.5</i>		<i>"</i>	<i>62.5</i>	<i>98.4</i>	<i>83-123</i>

Matrix Spike (8H28001-MS1)

Source: X808072-01

Prepared: 08/28/2008 Analyzed: 08/28/2008

Benzene	45.6	1.00	ug/L	50.0	ND	91.2	64.2-124
Toluene	39.5	1.00	"	50.0	ND	79.1	63.9-119
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>66.5</i>		<i>"</i>	<i>62.5</i>		<i>106</i>	<i>70.3-123</i>
<i>Surrogate: Toluene-d8</i>	<i>58.6</i>		<i>"</i>	<i>62.5</i>		<i>93.8</i>	<i>75.9-123</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>62.6</i>		<i>"</i>	<i>62.5</i>		<i>100</i>	<i>83-123</i>

Matrix Spike Dup (8H28001-MSD1)

Source: X808072-01

Prepared: 08/28/2008 Analyzed: 08/28/2008

Benzene	43.6	1.00	ug/L	50.0	ND	87.2	64.2-124	4.46	25
Toluene	35.6	1.00	"	50.0	ND	71.1	63.9-119	10.6	25
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>71.3</i>		<i>"</i>	<i>62.5</i>		<i>114</i>	<i>70.3-123</i>		
<i>Surrogate: Toluene-d8</i>	<i>53.9</i>		<i>"</i>	<i>62.5</i>		<i>86.3</i>	<i>75.9-123</i>		

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, Laboratory Manager

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

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
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Batch 8H28001 – EPA 5030B

Matrix Spike Dup (8H28001-MSD1)

Source: X808072-01

Prepared: 08/28/2008 Analyzed: 08/28/2008

Surrogate: 4-Bromofluorobenzene	60.7		ug/L	62.5		97.2	83-123			
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Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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.

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

Brian Dodek
Project Number: NEP0831
Project: State 6-36

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, Laboratory Manager



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303.433.1322 Phone 303.265.9645 Fax

September 19, 2008

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

Brian Dodek
Project Number: NEP0832.01
Project: State 6-36

Attached are the analytical results for State 6-36 received by Origins Laboratory, Inc. 9/18/2008 8:40:00AM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle", is positioned above the printed name.

Laboratory Manager
Noelle E Doyle

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. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.

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Denver, Colorado 80211
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Brian Dodek
Project Number: NEP0832.01
Project: State 6-36

CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
SW-1	X809048-01	Water	9/17/2008 1:15:00PM	09/18/2008 08:40
SW-2	X809048-02	Water	9/17/2008 1:25:00PM	09/18/2008 08:40
SW-3	X809048-03	Water	9/17/2008 1:40:00PM	09/18/2008 08:40

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Noelle E Doyle, Laboratory Manager

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Brian Dodek
Project Number: NEP0832.01
Project: State 6-36



Client: LTEND
Address: 4600 W 60th Ave
Aurora, CO 80005
Telephone Number: ON FILE
E-Mail Address:

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative						Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air - Summa Canister #	Other Ice		
SU-1	9/17/08	13:15	3	X	X			X	X	X			1
SU-2		13:25	3	X	X			X	X	X			2
SU-3		13:40	3	X				X					3
													4
													5
													6
													7
													8
													9
													10
Requested by: <u>J-O-E</u>	Date 9/18/08	Time 8:40		Received by:				Date	Time			Temperature Upon Receipt	
Requested by:	Date	Time		Received by:				Date	Time			Turn Around Time	
								9/18/08	8:40			Same Day	24-hr
												48-hr	72-hr
												Standard	

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Arvada CO 80003

Brian Dodek
Project Number: NEP0832.01
Project: State 6-36

SW-1

X809048-01 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	8118005	09/18/2008	09/18/2008
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	79.5 %	70.3-123	"	"	"
Surrogate: Toluene-d8	104 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	83-123	"	"	"

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SW-2

X809048-02 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	8118005	09/18/2008	09/19/2008
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	97.2 %	70.3-123	"	"	"
Surrogate: Toluene-d8	103 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	83-123	"	"	"

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Project Number: NEP0832.01
Project: State 6-36

SW-3

X809048-03 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	8118005	09/18/2008	09/19/2008
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.2 %	70.3-123	"	"	"
Surrogate: Toluene-d8	104 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	91.3 %	83-123	"	"	"

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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
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Batch 8118005 – EPA 5030B

Blank (8118005-BLK1)

Prepared: 09/18/2008 Analyzed: 09/18/2008

Benzene	ND	1.00	ug/L
Toluene	ND	1.00	"
Ethylbenzene	ND	1.00	"
o-Xylene	ND	1.00	"
m,p-Xylene	ND	2.00	"

Surrogate: 1,2-Dichloroethane-d4	62.1	"	62.5	99.3	70.3-123
Surrogate: Toluene-d8	60.3	"	62.5	96.5	75.9-123
Surrogate: 4-Bromofluorobenzene	59.9	"	62.5	95.9	83-123

LCS (8118005-BS1)

Prepared: 09/18/2008 Analyzed: 09/19/2008

Benzene	40.8	1.00	ug/L	50.0	81.5	64.2-124
Toluene	45.5	1.00	"	50.0	90.9	63.9-119
Surrogate: 1,2-Dichloroethane-d4	63.1		"	62.5	101	70.3-123
Surrogate: Toluene-d8	61.6		"	62.5	98.5	75.9-123
Surrogate: 4-Bromofluorobenzene	61.9		"	62.5	99.1	83-123

Matrix Spike (8118005-MS1)

Source: X809044-01

Prepared: 09/18/2008 Analyzed: 09/18/2008

Benzene	36.6	1.00	ug/L	50.0	0.64	71.9	64.2–124
Toluene	38.2	1.00	"	50.0	ND	76.3	63.9–119
Surrogate: 1,2-Dichloroethane-d4	64.6		"	62.5		103	70.3–123
Surrogate: Toluene-d8	61.5		"	62.5		98.4	75.9–123
Surrogate: 4-Bromofluorobenzene	59.3		"	62.5		94.9	83–123

Matrix Spike Dup (8118005-MSD1)

Source: X809044-01

Prepared: 09/18/2008 Analyzed: 09/18/2008

Benzene	34.8	1.00	ug/L	50.0	0.64	68.4	64.2-124	4.98	25
Toluene	36.9	1.00	"	50.0	ND	73.7	63.9-119	3.44	25
Surrogate: 1,2-Dichloroethane-d4	61.0		"	62.5		97.6	70.3-123		
Surrogate: Toluene-d8	60.4		"	62.5		96.7	75.9-123		
Surrogate: 4-Bromofluorobenzene	61.3		"	62.5		98.1	83-123		

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Notes and Definitions

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

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