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North America Division

Remediation #4365

April 18, 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  
Becky 2-6  
API 05-123-10427  
Sec.6, T1N R68W  
Weld County, Colorado

Dear Mr. Chesson:

Please find attached the Remediation and Groundwater Report for the Becky 2-6. 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 'm. COX'.

Mike Cox  
Environmental Coordinator

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

Todd Cullum  
Environmental Specialist

Attachments



April 15, 2011

Mr. Mike Cox  
Environmental Coordinator  
Noble Energy, Inc.  
804 Grand Avenue  
Platteville, Colorado 80651

Remediation #4365

Mr. Cliff Cox  
Foundation Energy Management  
P.O. Box 17127  
Fort Worth, TX 76102

**RE: March 2011 Groundwater Monitoring Report  
Becky #2-6 Tank Battery  
Weld County, Colorado**

Dear Mr. Cox:

LT Environmental, Inc. (LTE), as a contractor for Noble Energy, Inc. (Noble) and Foundation Energy Management (Foundation), conducted corrective actions at the Becky #2-6 Tank Battery (Site) located approximately 3.5 miles west of the intersection of Interstate 25 and Weld County Road (WCR) 52 in Weld County, Colorado. A Site Map is provided as Figure 1.

LTE, as a contractor for Noble and Foundation, has completed system design, installation, startup, and operation of an air sparging/soil vapor extraction (AS/SVE) remediation system. Due to mitigation of the vast majority of hydrocarbon impacts and successful attainment of cleanup goals for all monitoring wells on site, the system was shutdown on November 17, 2010. Noble and Foundation are continuing to conduct groundwater monitoring at the Site to evaluate the previously documented groundwater impact. This correspondence is provided to summarize the second quarter of post-remediation groundwater monitoring conducted on March 9, 2011.

### **Groundwater Sampling Procedures**

Seven groundwater monitoring wells (MW-7, MW-9, MW-10, MW-13, MW-25, MW26, and MW-34) were sampled at the Site on March 9, 2011, to determine the extent of the current plume. Monitoring well MW-23 was found to be destroyed and was therefore not sampled. Prior to sampling each monitoring well, the depth to groundwater was measured and recorded for calculating purge volumes (Table 1).

Each well was purged of three well casing volumes prior to collection of groundwater samples. Groundwater samples were collected from the well points by advancing disposable 3/16-inch diameter polyethylene tubing below the groundwater table inside the 1-inch diameter polyvinyl chloride (PVC) well casing utilizing a peristaltic pump. Groundwater samples were collected in

40-milliliter vials, placed on ice, and delivered under chain-of-custody (COC) protocol to Origins Laboratory, Inc. (Origins) in Denver, Colorado. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8260B.

## **Hydrogeology / Field Measurements**

During the March 2011 monitoring event, the depth to static groundwater level ranged from 8.50 feet below top of casing (btoc) in MW-7 to 9.28 feet btoc in MW-25 (Table 1). The groundwater flow direction was to the north with an average hydraulic gradient of approximately 0.024 feet per foot.

## **Groundwater Analytical Results**

The Colorado Department of Public Health and Environmental (CDPHE) Water Quality Control Commission (WQCC) has established Regulation 41 (Reg 41) - The Basic Standards for Groundwater for BTEX of 5.0 micrograms per liter (ug/L) for benzene, 560 ug/L for toluene, 700 ug/L for ethylbenzene, and 1,400 ug/L for total xylenes. Table 1 summarizes the historical groundwater analytical results since June 2008. The laboratory analytical report, laboratory quality assurance/quality control data, and COC documentation are included as Attachment 1.

Seven groundwater samples were collected and submitted to Origins for BTEX analysis during the March 9, 2011 monitoring event. Free-phase petroleum hydrocarbons were not identified in any of the seven monitoring wells. Groundwater analytical results indicated that no BTEX compounds exceeded the WQCC Reg 41 standards in any of the seven monitoring wells. Groundwater analytical results for the March 2011 monitoring event are summarized in Table 1 and illustrated on Figure 2.

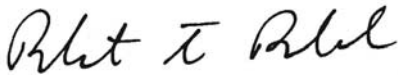
## **Summary and Conclusions**

Groundwater cleanup goals have been obtained for all areas of the Site, and there was no remaining impact identified exceeding regulatory standards in any of the seven monitoring wells during the March 2011 monitoring event. The March 2011 groundwater monitoring event was the second static monitoring event in compliance with applicable regulations. Noble and Foundation will continue to conduct static groundwater monitoring at the Site with the goal of obtaining four consecutive quarters of groundwater results in compliance with the WQCC Reg 41. The next groundwater sampling event will be conducted in June 2011. Groundwater monitoring will continue to be conducted at the Site on a quarterly basis until site closure status is received from the Colorado Oil and Gas Conservation Commission.

LTE appreciates the opportunity to provide environmental services to Noble and Foundation. Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.



Rob Rebel, P.E.  
Project Manager



Steve D. Kahn, P.E.  
Client Manager/Senior Engineer

Attachments

Figure 1 - Site Map

Figure 2 - Groundwater Analytical Results – March 9, 2011

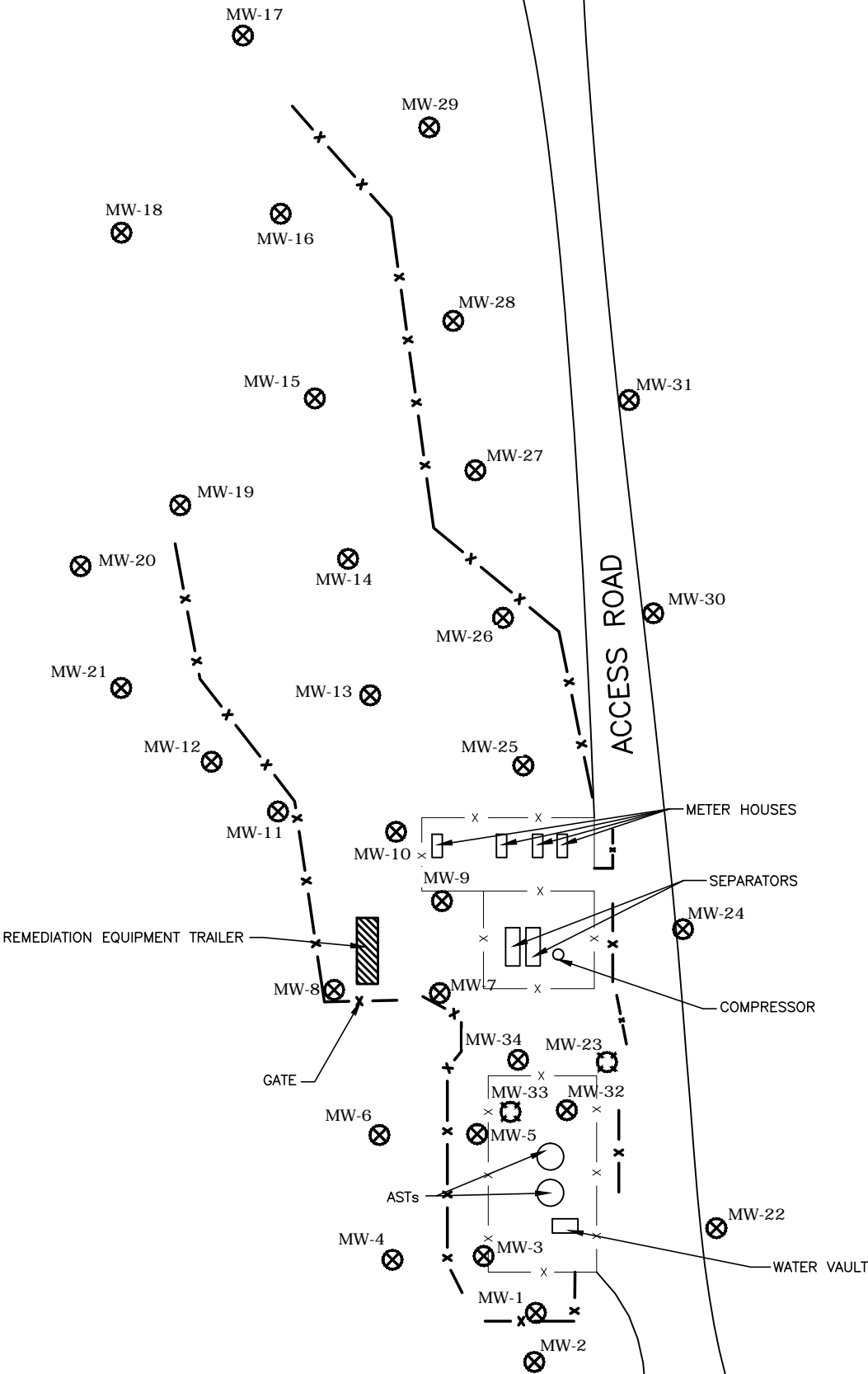
Table 1 - Groundwater Analytical Results

Attachment 1 - Laboratory Analytical Report

## FIGURES

COUNTY ROAD 52

ACCESS ROAD

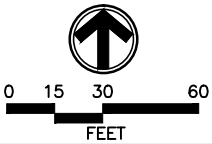


LEGEND

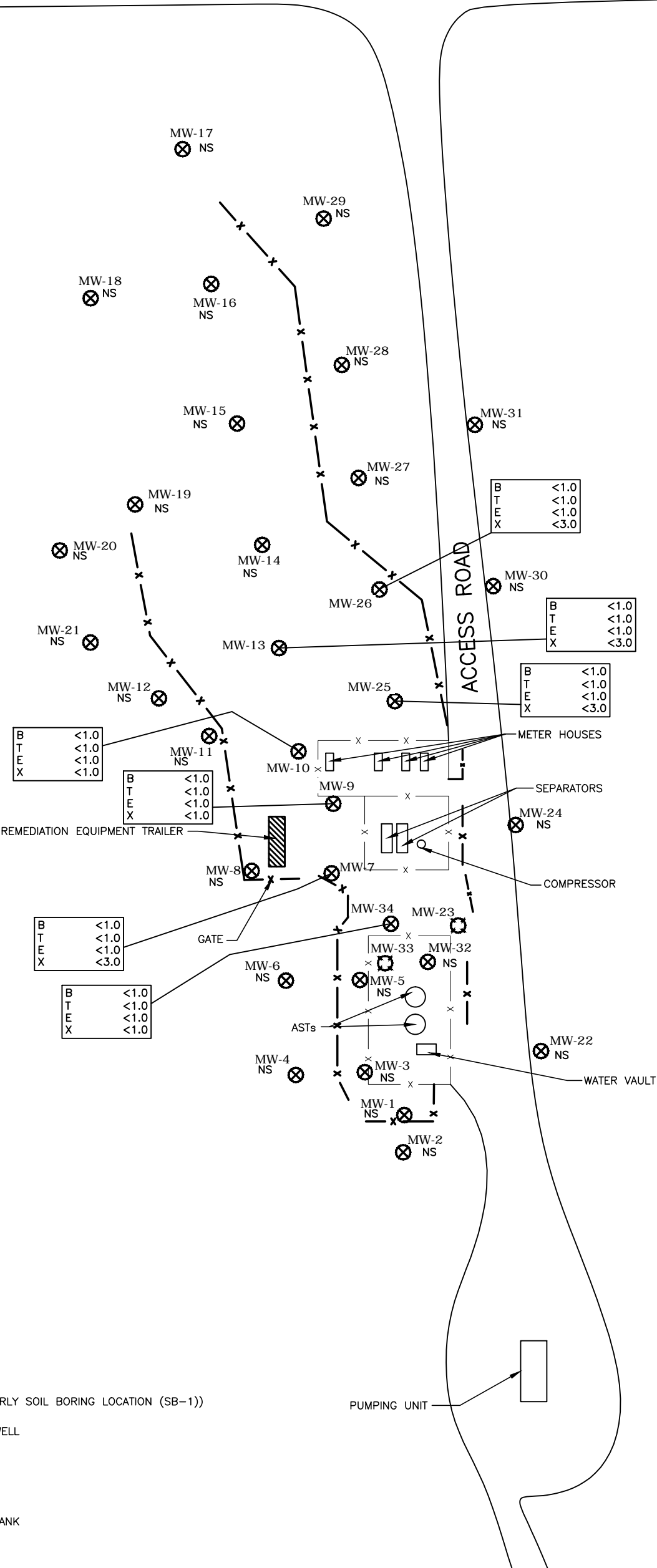
- MW-1 MONITORING WELL (FORMERLY SOIL BORING LOCATION (SB-1))
- MW-33 DESTROYED MONITORING WELL
- x — EXISTING FENCE
- x — NEW FENCE
- AST ABOVEGROUND STORAGE TANK

SOURCE:  
LTE SITE SKETCH

FIGURE 1  
SITE MAP  
BECKY #2-6 TANK BATTERY  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.



COUNTY ROAD 52



LEGEND

- ⊗ MONITORING WELL (FORMERLY SOIL BORING LOCATION (SB-1))
- ⊗ DESTROYED MONITORING WELL
- x — EXISTING FENCE
- x — NEW FENCE
- AST ABOVEGROUND STORAGE TANK

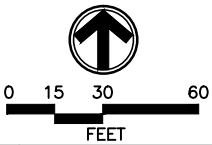
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	TOTAL XYLENES

ANALYTICAL RESULTS ARE REPORTED IN µg/L

- NS NOT SAMPLED
- < INDICATES CONCENTRATION IS LESS THAN STATED METHOD DETECTION LIMIT

SOURCE:  
LTE SITE SKETCH

FIGURE 2  
GROUNDWATER ANALYTICAL RESULTS  
MARCH 9, 2011  
BECKY #2-6 TANK BATTERY  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.



## TABLE



TABLE 1

**GROUNDWATER ANALYTICAL RESULTS**  
**BECKY #2-6 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-1	6/24/2008		7.92		3.52	<1.00	55.05	25.16
	11/10/2008		7.66		<1.00	<1.00	<1.00	<3.00
	2/23/2009		7.46		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.74		<1.00	<1.00	<1.00	<3.00
	9/1/2009		7.78		<1.00	<1.00	<1.00	<3.00
	12/28/2009		6.89		<1.00	<1.00	<1.00	<3.00
MW-2	6/24/2008		8.01		<1.00	<1.00	<1.00	<3.00
MW-3	6/24/2008		8.09		<b>6.43</b>	<1.00	<1.00	5.15
	11/10/2008		7.83		1.26	<1.00	<1.00	<3.00
	2/23/2009		7.68		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.98		2.31	<1.00	<1.00	<3.00
	9/1/2009		8.03		<1.00	<1.00	<1.00	<3.00
	12/28/2009		7.21		<1.00	<1.00	<1.00	<3.00
MW-4	6/24/2008		7.88		<1.00	<1.00	<1.00	<3.00
	11/10/2008		7.73		<1.00	<1.00	<1.00	<3.00
	2/23/2009		7.59		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.82		<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.07		<1.00	<1.00	<1.00	<3.00
	12/28/2009		7.01		<1.00	<1.00	<1.00	<3.00
MW-5	6/24/2008		8.08		<1.00	<1.00	<1.00	<3.00
MW-6	6/24/2008		7.85		<1.00	<1.00	<1.00	<3.00
MW-7	6/24/2008		8.10		<b>358.40</b>	1.02	277.60	<b>3,120.29</b>
	11/10/2008		7.98		<b>725</b>	<1.00	493	<b>6,008.8</b>
	2/23/1009		7.36		<b>5.03</b>	<1.00	9.04	141
	5/27/2009		7.09		<b>10.4</b>	1.16	362	498.2
	9/1/2009		8.14		<1.00	<1.00	<1.00	438
	12/28/2009		7.39		<1.00	<1.00	<1.00	19.1
	3/11/2010		7.81		<1.00	<1.00	2.71	35.1
	6/17/2010		8.75		<1.00	<1.00	<1.00	57.7
	9/22/2010		9.70		<1.00	<1.00	10.1	40.4
	12/1/2010		8.59		<1.00	<1.00	2.10	10.5
	3/9/2011		8.50		<1.00	<1.00	<1.00	<3.00

TABLE 1

**GROUNDWATER ANALYTICAL RESULTS**  
**BECKY #2-6 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-8	6/24/2008		7.60		<1.00	<1.00	<1.00	<3.00
	11/10/2008		7.59		<1.00	<1.00	<1.00	<3.00
	2/23/2009		7.34		<1.00	<1.00	<1.00	<3.00
	5/27/2009		6.59		<1.00	<1.00	<1.00	<3.00
	9/1/2009		7.64		<1.00	<1.00	<1.00	<3.00
	12/28/2009		6.87		<1.00	<1.00	<1.00	<3.00
MW-9	6/24/2008		8.45		<b>430.20</b>	<1.00	35.57	396.80
	11/10/2008		8.32		<b>175</b>	<1.00	24.7	77.90
	2/23/2009		8.29		<b>12.8</b>	<1.00	1.56	3.70
	5/27/2009		7.46		<b>99.4</b>	<1.00	15.0	77.3
	9/1/2009		5.61		<b>243</b>	<1.00	15.8	38.0
	12/28/2009		7.85		<b>5.23</b>	<1.00	<1.00	6.95
	3/11/2010		8.35		<b>61.0</b>	<1.00	9.53	31.5
	6/17/2010		9.12		1.85	<1.00	<1.00	<1.00
	9/22/2010		10.00		<1.00	<1.00	<1.00	<1.00
	12/1/2010		9.02		<1.00	<1.00	<1.00	<1.00
	3/9/2011		8.86		<1.00	<1.00	<1.00	<3.00
MW-10	6/24/2008		8.26		<b>1,254.2</b>	1.84	223.60	<b>2,373.80</b>
	11/10/2008	8.13	8.63	0.50	NA	NA	NA	NA
	11/13/2008	8.21	8.44	0.23	NA	NA	NA	NA
	2/23/2009	8.09	8.01	0.08	NA	NA	NA	NA
	5/27/2009	ND	7.30	0.00	<b>145</b>	<1.00	86.6	1,145.8
	9/1/2009	ND	8.38	0.00	<b>176</b>	<1.00	<1.00	542
	12/28/2009	ND	7.71	0.00	<b>183</b>	<1.00	120	570.4
	3/11/2010	ND	8.12	0.00	<b>139</b>	<1.00	135	969.2
	6/17/2010	ND	8.92	0.00	<b>113</b>	<1.00	86.2	1,260
	9/22/2010	ND	9.65	0.00	<b>11.2</b>	<1.00	46.3	867.8
	12/1/2010	ND	8.77	0.00	<1.00	<1.00	<1.00	<1.00
	3/9/2011	ND	8.68	0.00	<1.00	<1.00	<1.00	<3.00
MW-11	6/24/2008		7.52		<1.00	<1.00	1.35	14.70
	11/10/2008		7.48		<1.00	<1.00	<1.00	5.00
	2/23/2009		7.25		<1.00	<1.00	<1.00	<3.00
	5/28/2009		6.60		<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.62		<1.00	<1.00	<1.00	<3.00
	12/28/2009		6.90		<1.00	<1.00	<1.00	<3.00
MW-12	6/24/2008		7.70		<1.00	<1.00	<1.00	<3.00

TABLE 1

**GROUNDWATER ANALYTICAL RESULTS**  
**BECKY #2-6 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-13	6/24/2008		8.68		<b>1,616.2</b>	<1.00	249.20	<b>3,551.0</b>
	11/10/2008		8.85		<b>684</b>	<1.00	84.0	152.11
	2/23/2009		8.72		<b>390</b>	<1.00	26.7	86.5
	5/28/2009		8.75		<b>500</b>	<1.00	69.8	120
	9/1/2009		8.90		<b>329</b>	<1.00	21.8	1.05
	12/28/2009		8.43		<b>244</b>	<1.00	86.3	442.12
	3/11/2010		8.72		<b>34.2</b>	<1.00	14.4	44.2
	6/17/2010		9.30		3.14	<1.00	1.27	2.22
	9/22/2010		ND		WELL DRY			
	12/1/2010		9.31		1.59	<1.00	1.67	<1.00
	3/9/2011		9.12		<1.00	<1.00	<1.00	<3.00
MW-14	6/24/2008		9.35		3.66	1.26	1.69	21.65
	11/10/2008		9.56		<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.48		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.65		<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.84		<1.00	<1.00	<1.00	<3.00
	12/28/2009		9.19		<1.00	<1.00	<1.00	<3.00
MW-15	6/24/2008		9.34		<1.00	<1.00	<1.00	4.31
	11/10/2008		9.89		<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.66		<1.00	<1.00	<1.00	<3.00
	5/28/2009		8.89		<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.83		<1.00	<1.00	<1.00	<3.00
	12/28/2009		9.45		<1.00	<1.00	<1.00	<3.00
MW-16	6/24/2008		9.19		<b>6.28</b>	<1.00	170.65	<b>1,998.36</b>
	11/10/2008	9.83	9.84	0.01	NA	NA	NA	NA
	11/13/2008	ND	9.88	0.00	<1.00	<1.00	<1.00	220.86
	2/23/2009	ND	9.62	0.00	<1.00	<1.00	9.12	89.0
	5/27/2009	ND	8.81	0.00	<1.00	<1.00	14.3	152
	9/1/2009	ND	9.78	0.00	<1.00	<1.00	<1.00	88.9
	12/28/2009	ND	9.49	0.00	<1.00	<1.00	12.9	73.6

TABLE 1

**GROUNDWATER ANALYTICAL RESULTS**  
**BECKY #2-6 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-17	6/24/2008		9.16		<1.00	<1.00	<1.00	13.46
	11/10/2008		10.27		<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.98		<1.00	<1.00	<1.00	<3.00
	5/27/2009		10.95		NA	NA	NA	NA
	9/1/2009		9.87		<1.00	<1.00	<1.00	<3.00
MW-18	6/24/2008		9.37		<1.00	<1.00	<1.00	3.24
	11/10/2008		10.13		<1.00	<1.00	<1.00	3.36
	2/23/2009		9.92		<1.00	<1.00	<1.00	<3.00
	5/28/2009		9.14		<1.00	<1.00	<1.00	<3.00
	9/1/2009		10.05		<1.00	<1.00	<1.00	<3.00
	12/28/2009		9.61		<1.00	<1.00	<1.00	<3.00
MW-19	6/24/2008		8.73		<1.00	<1.00	<1.00	3.53
MW-20	6/24/2008		8.52		<1.00	<1.00	<1.00	<3.00
MW-21	6/24/2008		8.20		<1.00	<1.00	<1.00	<3.00
MW-22	6/24/2008		8.66		<1.00	<1.00	<1.00	<3.00
MW-23	6/24/2008		9.14		<b>83.13</b>	1.43	164.46	1,283
	11/10/2008		8.95		1.46	<1.00	1.54	<3.00
	2/23/2009		ND		WELL DRY			
	9/1/2009		ND		WELL DRY			
	12/28/2009		ND		WELL DRY			
	3/11/2010		ND		WELL DRY			
	6/17/2010		ND		WELL DRY			
	9/22/2010		ND		WELL DRY			
	12/1/2010		ND		WELL DRY			
	3/9/2011		ND		WELL DESTROYED			
MW-24	6/24/2008		9.00		<1.00	<1.00	<1.00	<3.00
	11/10/2008		8.85		<1.00	<1.00	<1.00	6.27
	2/23/2009		8.84		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.00		<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.09		<1.00	<1.00	<1.00	<3.00
	12/28/2009		8.52		<1.00	<1.00	<1.00	<3.00

TABLE 1

**GROUNDWATER ANALYTICAL RESULTS**  
**BECKY #2-6 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-25	6/24/2008		8.86		<b>120.95</b>	<1.00	17.52	602.10
	11/10/2008		8.85		<b>47.5</b>	<1.00	7.73	28.8
	2/23/2009		8.71		<b>20.3</b>	<1.00	1.64	3.86
	5/27/2009		7.95		<b>29.9</b>	<1.00	7.40	7.13
	9/1/2009		9.05		<1.00	<1.00	<1.00	<3.00
	12/28/2009		8.49		<1.00	<1.00	<1.00	<3.00
	3/11/2010		8.95		1.23	<1.00	<1.00	<3.00
	6/17/2010		9.59		2.33	4.41	<1.00	2.16
	9/22/2010		10.38		<1.00	<1.00	<1.00	<1.00
	12/1/2010		9.36		<1.00	<1.00	<1.00	2.14
	3/9/2011		9.28		<1.00	<1.00	<1.00	<3.00
MW-26	6/24/2008		8.35		<b>75.72</b>	<1.00	71.24	598.70
	11/10/2008		8.47		<b>57.4</b>	<1.00	36.4	47.60
	2/23/2009		8.26		<1.00	<1.00	<1.00	<3.00
	5/27/2009		7.50		2.02	<1.00	1.97	<3.00
	9/1/2009		8.54		<1.00	<1.00	<1.00	<3.00
	12/28/2009		8.07		<1.00	<1.00	<1.00	<3.00
	3/11/2010		8.63		<1.00	<1.00	<1.00	<3.00
	6/17/2010		9.10		<b>8.15</b>	1.98	<1.00	<1.00
	9/22/2010		9.90		<1.00	<1.00	<1.00	<1.00
	12/1/2010		8.88		<1.00	<1.00	<1.00	<1.00
	3/9/2011		8.80		<1.00	<1.00	<1.00	<3.00
MW-27	6/24/2008		8.73		<1.00	<1.00	<1.00	<3.00
	11/10/2008		9.07		1.72	<1.00	<1.00	18.4
	2/23/2009		8.87		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.03		<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.07		<1.00	<1.00	<1.00	<3.00
	12/28/2009		8.71		<1.00	<1.00	<1.00	<3.00
MW-28	6/24/2008		8.85		<1.00	<1.00	<1.00	2.97
MW-29	6/24/2008		8.89		<1.00	<1.00	<1.00	<3.00
	11/10/2008		9.69		<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.46		<1.00	<1.00	4.18	5.23
	5/27/2009		8.65		<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.61		<1.00	<1.00	<1.00	<3.00
	12/28/2009		10.36		<1.00	<1.00	<1.00	<3.00

TABLE 1

**GROUNDWATER ANALYTICAL RESULTS**  
**BECKY #2-6 TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**

Well ID	Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW-30	6/24/2008		8.57		<1.00	<1.00	<1.00	<3.00
	11/10/2008		8.56		<1.00	<1.00	<1.00	2.88
	2/23/2009		8.46		<1.00	<1.00	<1.00	<3.00
	5/27/2009		7.69		<1.00	<1.00	<1.00	<3.00
	9/1/2009		8.67		<1.00	<1.00	<1.00	<3.00
	12/28/2009		8.26		<1.00	<1.00	<1.00	<3.00
MW-31	6/24/2008		7.94		<1.00	<1.00	<1.00	<3.00
MW-32	7/7/2008		NM		<1.0	<1.0	<1.0	<1.0
	11/10/2008		9.57		<1.00	<1.00	<1.00	<3.00
	2/23/2009		9.42		<1.00	<1.00	<1.00	<3.00
	5/27/2009		8.70		<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.74		<1.00	<1.00	<1.00	<3.00
	12/28/2009		8.96		<1.00	<1.00	<1.00	<3.00
MW-33	7/7/2008		NM		1.4	<1.0	10	5.9
	11/10/2008		NM		WELL DESTROYED			
MW-34	7/7/2008		NM		<b>160</b>	<1.00	370	<b>2,800</b>
	11/10/2008		8.13		<b>85.7</b>	<1.00	89.4	108
	2/23/2009		7.98		<1.00	<1.00	<1.00	<3.00
	5/27/2009		7.26		<1.00	<1.00	<1.00	<3.00
	9/1/2009		9.58		<1.00	<1.00	<1.00	<3.00
	12/28/2009		7.57		<1.00	<1.00	<1.00	<3.00
	3/11/2010		8.02		<1.00	<1.00	<1.00	<3.00
	6/17/2010		8.97		<b>5.19</b>	3.04	<1.00	<1.00
	9/22/2010		ND		WELL DRY			
	12/1/2010		8.83		<1.00	<1.00	<1.00	<1.00
	3/9/2011		8.71		<1.00	<1.00	<1.00	<3.00
CDPHE WQCC Reg 41					<b>5.0</b>	<b>560</b>	<b>700</b>	<b>1,400</b>

**NOTES:**

btoc - below top of casing

µg/L - micrograms per liter

NA - not analyzed

ND - not detected

NM - not measured

&lt; indicates result is less than the stated laboratory reporting limit

**BOLD** - indicates result exceeds the applicable regulatory standard

CDPHE-WQCC - Colorado Department of Public Health and Environmental - Water Quality Control Commission

Regulation 41 covering Basic Standards for Groundwater

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

**ATTACHMENT 1**  
**LABORATORY ANALYTICAL REPORT**



March 14, 2011

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

---

**Project Name - Noble - Becky #2-6**

**Project Number - NEP0826**

Attached are you analytical results for Noble - Becky #2-6 received by Origins Laboratory, Inc. March 09, 2011. This project is associated with Origins project number X103078-01.

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

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com





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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-26	X103078-01	Water	March 9, 2011 11:20	03/09/2011 13:25
MW-13	X103078-02	Water	March 9, 2011 11:30	03/09/2011 13:25
MW-25	X103078-03	Water	March 9, 2011 11:35	03/09/2011 13:25
MW-10	X103078-04	Water	March 9, 2011 11:40	03/09/2011 13:25
MW-09	X103078-05	Water	March 9, 2011 12:00	03/09/2011 13:25
MW-07	X103078-06	Water	March 9, 2011 12:10	03/09/2011 13:25
MW-34	X103078-07	Water	March 9, 2011 12:25	03/09/2011 13:25

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

www.originslaboratory.com

page 1 of 1

X103078

ORIGINS  
LABORATORY, INC

Client: LT  
Address: 4600 W 60th Ave  
Telephone Number: 303-433-9788  
Email Address: rebel@ltenv.com

Project Manager: Rob Rebel  
Project Name: Becky #2-6  
Project Number: NEP0826  
Samples Collected By: G. Casson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			Other
MW26	3/9/11	1120	2	X				X				1	
MW13	3/9/11	1130	2	X				X				2	
MW25	3/9/11	1135	2	X				X				3	
MW10	3/9/11	1140	2	X				X				4	
MW09	3/9/11	1200	2	X				X				5	
MW07	3/9/11	1210	2	X				X				6	
MW34	3/9/11	1225	2	X				X				7	
												8	
												9	
												10	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	<u>3/9/11</u>	<u>1325</u>	<u>[Signature]</u>	<u>3/9/11</u>	<u>1325</u>	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"/>

Data Results Needed

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Noelle E Doyle

Noelle E Doyle, President

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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

MW-26  
3/9/2011 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X103078-01 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C11006	03/11/2011	03/11/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	3.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	95.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

MW-13  
3/9/2011 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X103078-02 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C11006	03/11/2011	03/11/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	3.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

MW-25  
3/9/2011 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X103078-03 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C11006	03/11/2011	03/11/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	3.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	94.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

MW-10  
3/9/2011 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X103078-04 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C11006	03/11/2011	03/11/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	3.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	93.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

MW-09

3/9/2011 12:00:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.  
X103078-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C11006	03/11/2011	03/11/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	3.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	94.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

MW-07  
3/9/2011 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X103078-06 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C11006	03/11/2011	03/11/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	3.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	94.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130	"	"	"

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

MW-34

3/9/2011 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X103078-07 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	1C11006	03/11/2011	03/11/2011
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	3.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	93.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

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 1C11006 - EPA 5030B

Blank (1C11006-BLK1)

Prepared: 03/11/2011 Analyzed: 03/14/2011

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	69.2		"	62.5		111	70-130			
Surrogate: Toluene-d8	58.3		"	62.5		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	61.5		"	62.5		98.3	70-130			

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1C11006 - EPA 5030B

LCS (1C11006-BS1)

Prepared: 03/11/2011 Analyzed: 03/14/2011

Benzene	57.5	1.00	ug/L	50.0	115	70-130
Toluene	52.7	1.00	"	50.0	105	70-130
Ethylbenzene	56.2	1.00	"	50.0	112	70-130
m,p-Xylene	121	2.00	"	100	121	70-130
o-Xylene	59.5	1.00	"	50.0	119	70-130
Surrogate: 1,2-Dichloroethane-d4	68.7		"	62.5	110	70-130
Surrogate: Toluene-d8	59.0		"	62.5	94.4	70-130
Surrogate: 4-Bromofluorobenzene	64.1		"	62.5	102	70-130

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

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 1C11006 - EPA 5030B

Matrix Spike (1C11006-MS1)		Source: X103079-02			Prepared: 03/11/2011 Analyzed: 03/14/2011					
Benzene	56.9	1.00	ug/L	50.0	ND	114	70-130			
Toluene	51.1	1.00	"	50.0	ND	102	70-130			
Ethylbenzene	53.9	1.00	"	50.0	ND	108	70-130			
m,p-Xylene	116	2.00	"	100	ND	116	70-130			
o-Xylene	57.7	1.00	"	50.0	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	68.1		"	62.5		109	70-130			
Surrogate: Toluene-d8	59.5		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	63.8		"	62.5		102	70-130			

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: NEP0826  
Project: Noble - Becky #2-6

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 1C11006 - EPA 5030B

Matrix Spike Dup (1C11006-MSD1)		Source: X103079-02			Prepared: 03/11/2011 Analyzed: 03/14/2011					
Benzene	54.7	1.00	ug/L	50.0	ND	109	70-130	3.91	20	
Toluene	50.5	1.00	"	50.0	ND	101	70-130	1.20	20	
Ethylbenzene	53.4	1.00	"	50.0	ND	107	70-130	0.876	20	
m,p-Xylene	114	2.00	"	100	ND	114	70-130	0.921	20	
o-Xylene	56.1	1.00	"	50.0	ND	112	70-130	2.76	20	
Surrogate: 1,2-Dichloroethane-d4	66.7		"	62.5		107	70-130			
Surrogate: Toluene-d8	59.6		"	62.5		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	63.6		"	62.5		102	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: NEP0826  
Project: Noble - Becky #2-6

### 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, President