



December 10, 2010

Remediation #3459

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

**RE: Third Quarter 2010 Remediation and Monitoring Report  
Frick 18 – 2 & 8 Natural Gas Wellhead Site  
Weld County, Colorado**

Dear Mr. Cox:

Noble Energy, Inc. (Noble) retained LT Environmental, Inc. (LTE) to conduct corrective actions at the Frick 18 – 2 & 8 natural gas wellhead site (Site) located approximately 0.4 miles north of the intersection of Weld County Road (WCR) 44 and WCR 51 in Weld County, Colorado (Figure 1). The remediation program for the Site involved two distinct phases. Phase I of the program involved the design, installation, and operation and maintenance (O&M) of an air sparging/soil vapor extraction (AS/SVE) system. Phase I of the program was successful in mitigating the majority of subsurface hydrocarbon impacts. Following completion of Phase I of the program, LTE initiated Phase II, which included an enhanced attenuation remedial technology.

LTE continues to conduct groundwater monitoring at the Site to evaluate the effectiveness of the remediation program in mitigating groundwater impact. This correspondence is the Third Quarter 2010 Remediation and Monitoring Report, and summarizes activities conducted at the Site from August 1, 2010 through October 31, 2010. Activities conducted during the reporting period included quarterly groundwater monitoring.

**Phase I Remediation System Description**

The AS/SVE system operated intermittently from August 8, 2008 to February 18, 2010. The AS system introduced ambient air into the subsurface water column 1) to initiate dissolved hydrocarbon volatilization and 2) to promote aerobic microbial decomposition of petroleum constituents. The SVE system volatilized petroleum constituents adsorbed onto soil particles and removed petroleum vapors released from the groundwater by the AS process. AS and SVE wells connected to a remediation equipment trailer housing the equipment for the AS/SVE system. The September 11, 2008 report titled *Remediation System Installation and Startup, and Pre-System Groundwater Sampling Results* described the remediation system, which is also illustrated on Figure 2.

## **Phase II Remediation System Description**

Phase II of the remediation program included the application of a groundwater amendment to areas of the Site continuing to exhibit low level dissolved hydrocarbon impacts. The Phase II program was designed to both increase the attenuation rate of the plume and decrease the mass flux of hydrocarbons from the source to down-gradient areas. The amendment consisted of implementing the BOS200<sup>®</sup> Trap & Treat carbon slurry (BOS200<sup>®</sup>). BOS200<sup>®</sup> is a mixture of granular activated carbon (GAC), petroleum consuming microbes, gypsum, and nutrients. The GAC initially adsorbs hydrocarbons in the soil and groundwater and immobilizes the impact. Following adsorption, contaminants are co-located with the bacteria, electron acceptors, and nutrients in the carbon matrix, and are consumed by the bacteria via petroleum oxidation/sulfate reduction biologically mediated reactions. As a result, the remaining hydrocarbon impact is reduced, achieving cleanup goals.

Implementation of Phase II of the remedial program occurred from June 28, 2010 through July 2, 2010. Application of the groundwater amendment occurred at two distinct areas, the area near MW01, MW02, and SB02R and the area near MW10R (Figure 1). Installation of the groundwater amendment involved removing overburden to expose the aquifer, placing the amendment in the saturated soils, and mixing the amendment with the native materials. The final dimensions of the first treatment area (MW01, MW02, SB02R) were 25 feet by 25 feet by 10 feet below ground surface (bgs). The final dimensions of the second treatment area (SB10R) were 10 feet by 12 feet by 6 feet bgs. Continual groundwater monitoring verifies the effectiveness of the remediation program and applicability for site closure status.

## **Groundwater Sampling Procedures**

On October 26, 2010, nine groundwater monitoring wells were sampled to determine the current plume extent after five months of static evaluation and Phase II installation. Prior to sampling, depth to groundwater in each monitoring well was measured and recorded to calculate appropriate purge volumes (Table 1). All wells were purged of three casing volumes. Then groundwater samples were collected from the well points by advancing disposable 3/16-inch diameter polyethylene tubing below the water table inside 1-inch diameter polyvinyl chloride (PVC) casing. A peristaltic pump transported groundwater to the surface for collection in 40-milliliter unpreserved vials, which were then placed on ice, and delivered under chain-of-custody (COC) protocol to Origins Laboratory located in Denver, Colorado. All samples were lab filtered and analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B.

## **Hydrogeology**

During the October 26, 2010 sampling event, the depth to static groundwater ranged from 3.61 feet below top of casing (btoc) in SB09 to 6.64 feet btoc in MW02R (Table 1). The

groundwater flow direction was to the east with an average hydraulic gradient of approximately 0.016 feet per foot (ft/ft).

### **Groundwater Analytical Results**

Nine groundwater samples were collected and submitted to Origins Laboratory for BTEX analysis during the October 26, 2010 sampling event (MW01R, MW02R, SB02R(2), SB03, SB07, SB09, SB10R(2), SB15, and SB16). SB27 could not be located and is presumed to be destroyed. Regulation 41, established by The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission (WQCC), states The Basic Standards for Groundwater for BTEX are 5.0 micrograms per liter (ug/L), 560 ug/L, 700 ug/L, and 1,400 ug/L, respectively. Groundwater analytical results indicated benzene levels above the Regulation 41 standard in monitoring wells MW01R, SB02R(2), and SB10R(2) at concentrations of 560 ug/L, 20 ug/L, and 6.52 ug/L, respectively. BTEX compounds were not detected above the Regulation 41 standards in the remaining samples. Groundwater analytical results for the October 26, 2010 sampling events are summarized in Table 2 and illustrated on Figures 3 and 4. The laboratory analytical reports, laboratory quality assurance/quality control data, and COC documentation are presented in Attachment 1.

### **Summary and Conclusions**

Since implementation of the Remediation Program, benzene concentrations in monitoring wells MW02R, SB09, SB16, SB18R, SB20, and SB27 successfully decreased into compliance with the Regulation 41 standard. These data indicate that cleanup objectives were attained for these areas, representing successful remediation of approximately 90% of the pre-remediation system (August 2008) plume extent, as seen on Figure 4.

However, as shown on Table 2, following implementation of Phase I and Phase II of the remediation program benzene concentrations above cleanup levels remain in three monitoring wells (MW01R, SB02R(2), and SB10R(2)). As a result, Noble/LTE will continue groundwater monitoring and will expand the Phase II program in the 4<sup>th</sup> Quarter of 2010.

The next groundwater sampling event will be in December 2010. Groundwater monitoring will continue at the Site on a quarterly basis until site closure status is received from the Colorado Oil and Gas Conservation Commission (COGCC).

LTE appreciates the opportunity to provide environmental services to Noble. 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 Kahn, P.E.  
Senior Engineer

Attachments

Figure 1: Site Map

Figure 2: AS/SVE System Layout

Figure 3: Groundwater Analytical Results – October 26, 2010

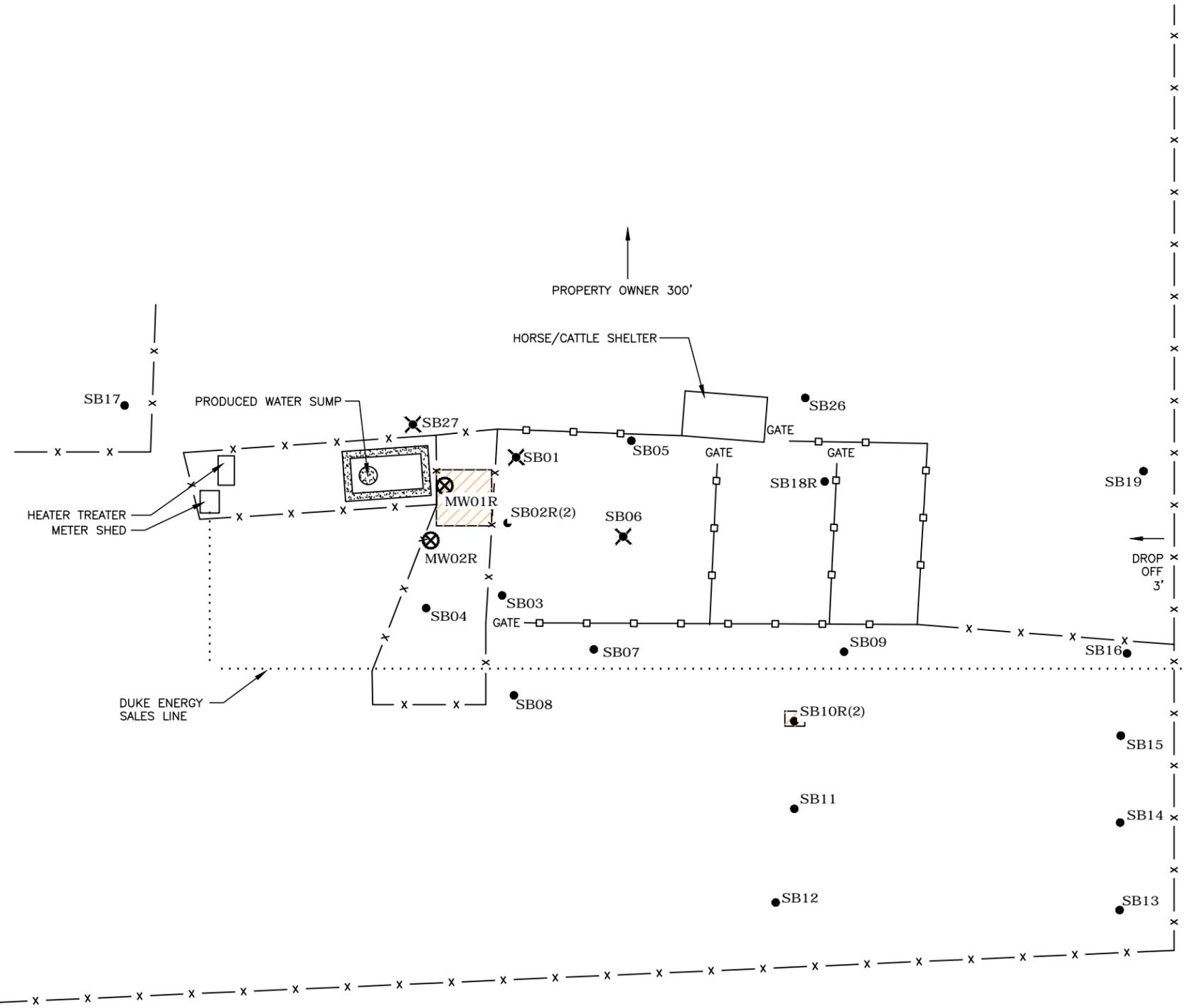
Figure 4: Groundwater Analytical Summary

Table 1: Groundwater Elevation Summary

Table 2: Groundwater Analytical Results – Volatile Organic Compounds

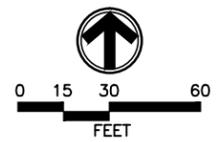
Attachment 1: Laboratory Analytical Results

## **FIGURES**



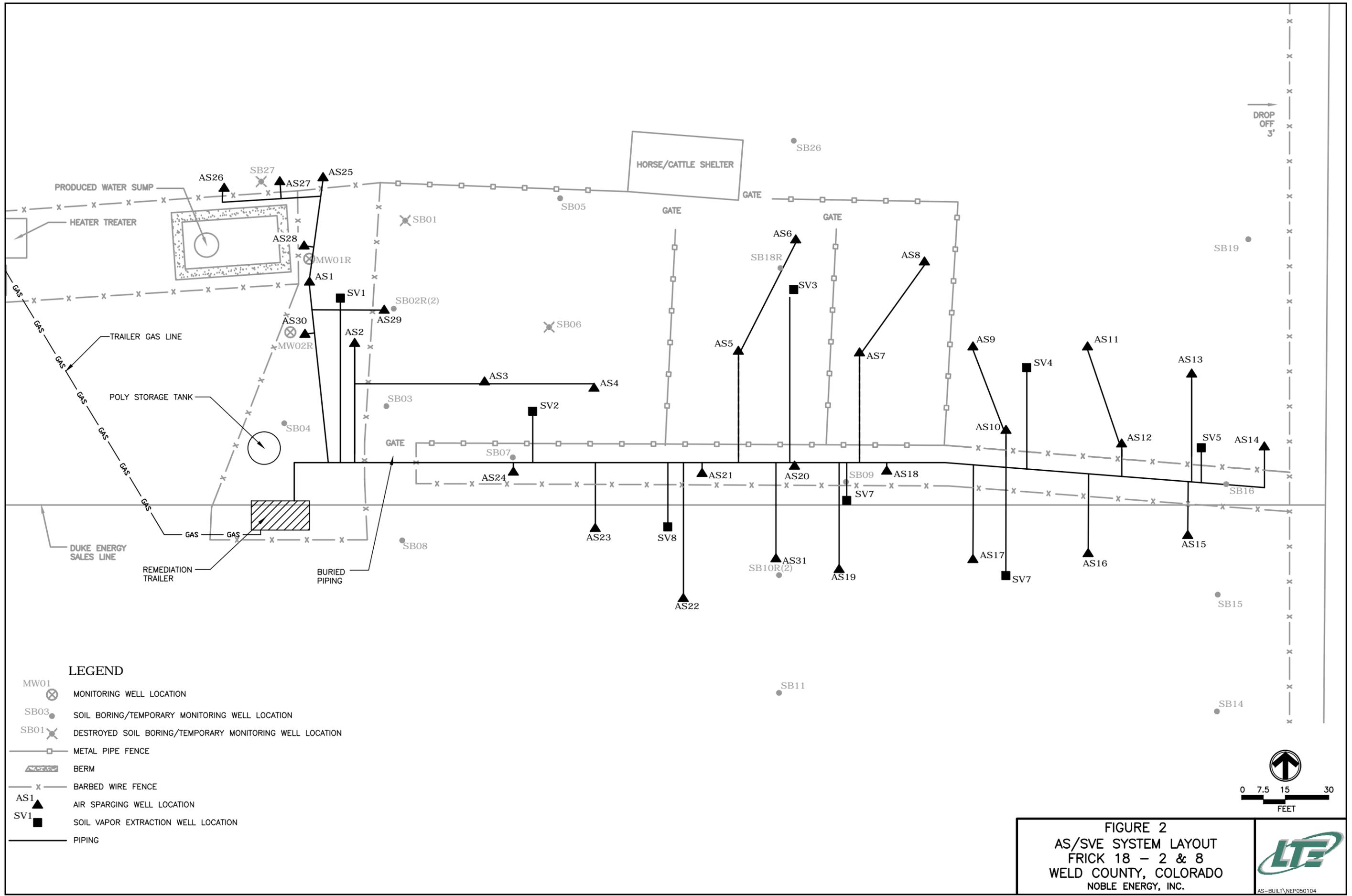
**LEGEND**

- MW01 MONITORING WELL LOCATION
- SB03 SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- SB01 DESTROYED SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- METAL PIPE FENCE
- BARBED WIRE FENCE
- BERM
- TREATMENT AREA



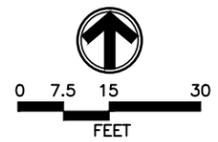
**FIGURE 1**  
**SITE MAP**  
**FRICK 18-2 & 8**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**





**LEGEND**

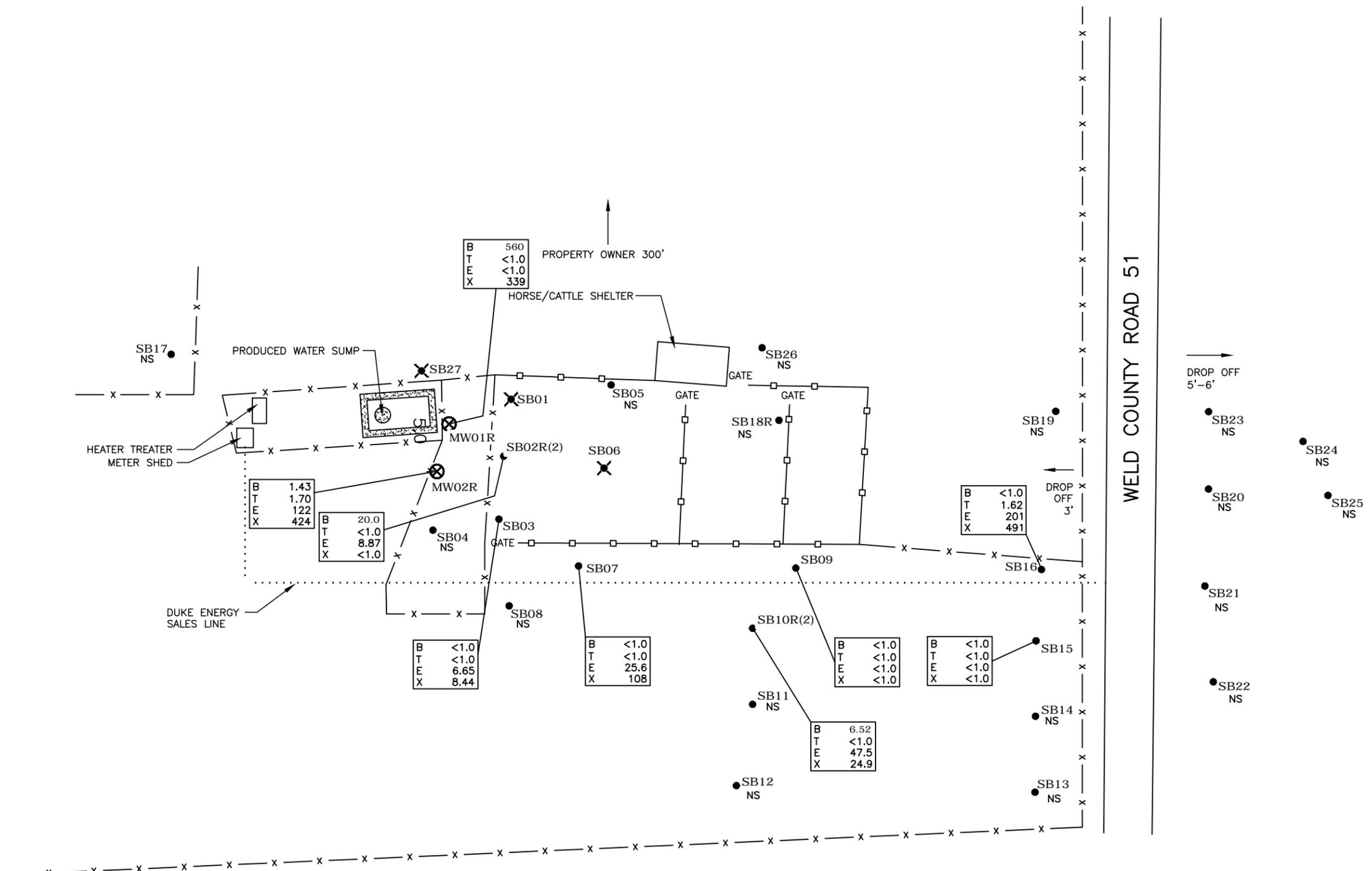
- MW01 MONITORING WELL LOCATION
- SB03 SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- SB01 DESTROYED SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- METAL PIPE FENCE
- BERM
- BARBED WIRE FENCE
- AS1 AIR SPARGING WELL LOCATION
- SV1 SOIL VAPOR EXTRACTION WELL LOCATION
- PIPING



**FIGURE 2**  
**AS/SVE SYSTEM LAYOUT**  
**FRICK 18 - 2 & 8**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



AS-BUILT\_NEP050104



- LEGEND**
- MW01 MONITORING WELL LOCATION
  - SB02R SOIL BORING/TEMPORARY MONITORING WELL LOCATION
  - SB01 DESTROYED SOIL BORING/TEMPORARY MONITORING WELL LOCATION
  - METAL PIPE FENCE
  - BARBED WIRE FENCE
  - BERM

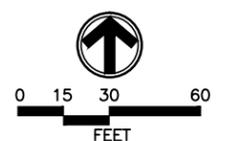
(SAMPLE DATE)

|   |               |
|---|---------------|
| B | BENZENE       |
| T | TOLUENE       |
| E | ETHYLBENZENE  |
| X | TOTAL XYLENES |

ANALYTICAL RESULTS ARE REPORTED IN MICROGRAMS PER LITER (µg/L)

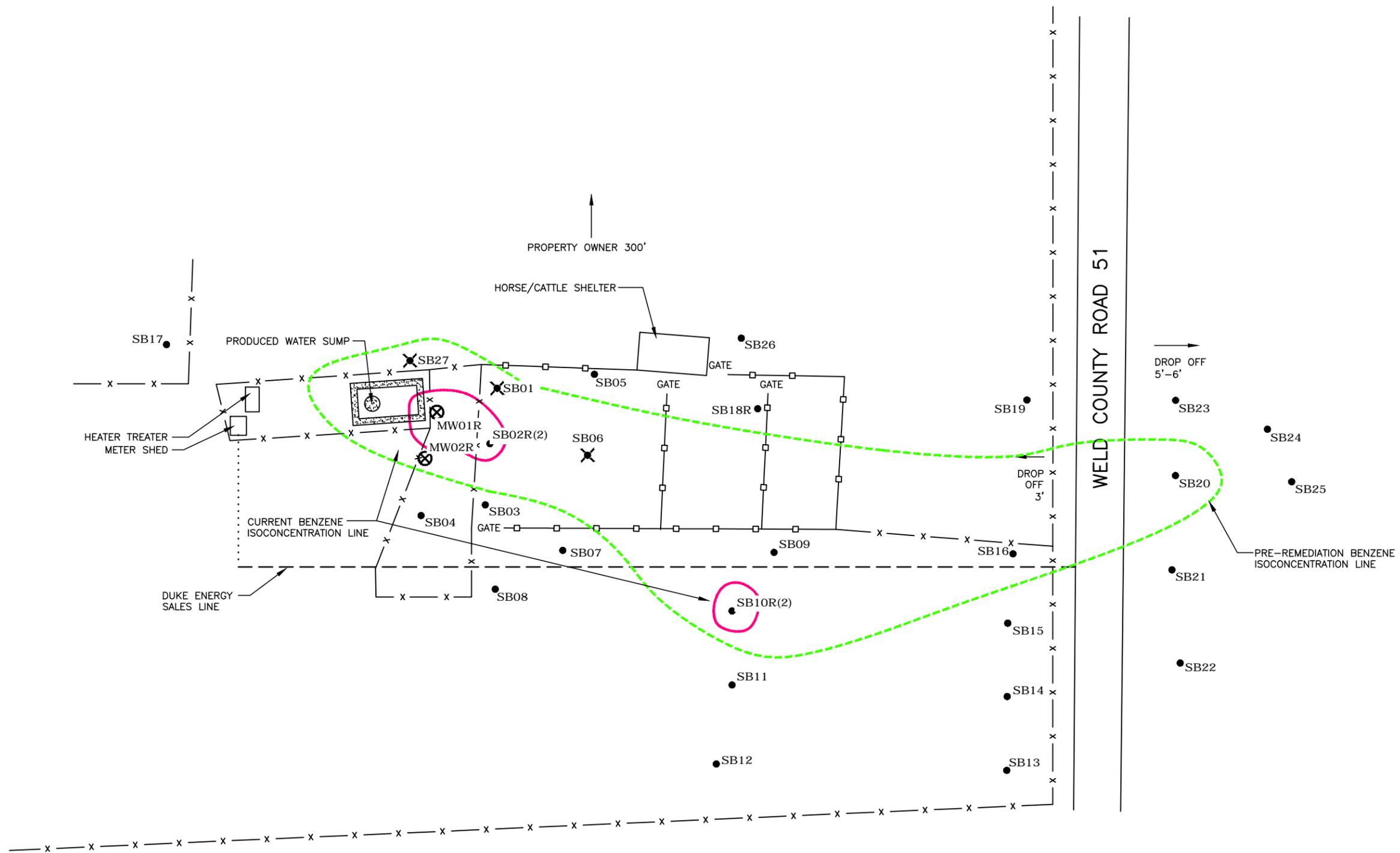
NS NOT SAMPLED

BOLD INDICATES ABOVE STANDARD



**FIGURE 3**  
**GROUNDWATER ANALYTICAL RESULTS**  
**OCTOBER 26, 2010**  
**FRICK 18-2 & 8**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



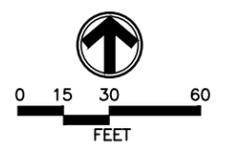


**LEGEND**

- MW01 MONITORING WELL LOCATION
- SB02R SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- SB01 DESTROYED SOIL BORING/TEMPORARY MONITORING WELL LOCATION
- BARBED WIRE FENCE
- METAL PIPE FENCE
- BERM

- 5.0 MICROGRAMS PER LITER (µg/L) BENZENE ISOCONCENTRATION LINE (OCTOBER 2010)
- PRE-REMEDATION SYSTEM 5.0 µg/L BENZENE ISOCONCENTRATION LINE (AUGUST 2008)

NOTE:  
REMEDICATION SYSTEM BEGAN OPERATION ON  
AUGUST 8, 2008



**FIGURE 4**  
GROUNDWATER ANALYTICAL SUMMARY  
FRICK 18-2 & 8  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.



## **TABLES**

**TABLE 1  
GROUNDWATER ELEVATION SUMMARY**

**FRICK 18 - 2 & 8  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

| <b>Well ID</b> | <b>Date</b> | <b>Total Depth (ft)</b> | <b>Depth to Water (ft)</b> | <b>TOC Elevation (ft)</b> | <b>Groundwater Elevation (relative ft)</b> |
|----------------|-------------|-------------------------|----------------------------|---------------------------|--|
| MW01           | 10/11/05    | 17.78                   | 8.80                       | 96.33                     | 87.53                                      |
|                | 01/20/06    | 17.78                   | 8.23                       | 96.33                     | 88.10                                      |
|                | 03/28/07    | 17.78                   | 7.63                       | 96.33                     | 88.70                                      |
|                | 08/05/08    | 17.78                   | 6.27                       | 96.33                     | 90.06                                      |
|                | 11/14/08    | 17.78                   | 4.32                       | 96.33                     | 92.01                                      |
|                | 11/24/08    | 17.78                   | 3.49                       | 96.33                     | 92.84                                      |
|                | 02/24/09    | 17.78                   | 3.31                       | 96.33                     | 93.02                                      |
|                | 05/26/09    | 17.78                   | 0.70                       | 96.33                     | 95.63                                      |
|                | 08/31/09    | 17.78                   | 3.75                       | 96.33                     | 92.58                                      |
|                | 12/29/09    | 17.78                   | 2.22                       | 96.33                     | 94.11                                      |
|                | 03/11/10    | 17.78                   | 1.43                       | 96.33                     | 94.90                                      |
| MW01R          | 07/28/10    | 10.03                   | 5.46                       | NM                        | NM   |
|                | 10/26/10    | 10.03                   | 5.95                       | NM                        | NM   |
| MW02           | 10/11/05    | 18.39                   | 9.68                       | 96.83                     | 87.15                                      |
|                | 01/20/06    | 18.39                   | 8.78                       | 96.83                     | 88.05                                      |
|                | 03/28/07    | 18.39                   | 7.95                       | 96.83                     | 88.88                                      |
|                | 08/05/08    | 18.39                   | 6.51                       | 96.83                     | 90.32                                      |
|                | 11/24/08    | 18.39                   | 3.78                       | 96.83                     | 93.05                                      |
|                | 02/24/09    | 18.39                   | 3.31                       | 96.83                     | 93.52                                      |
|                | 05/26/09    | 18.34                   | 1.00                       | 96.83                     | 95.83                                      |
|                | 08/31/09    | 18.34                   | 4.10                       | 96.83                     | 92.73                                      |
|                | 12/29/09    | 18.34                   | 1.84                       | 96.83                     | 94.99                                      |
|                | 03/11/10    | 18.34                   | 1.50                       | 96.83                     | 95.33                                      |
|                | MW02R       | 07/28/10                | 12.04                      | 5.87                      | NM   |
| 10/26/10       |             | 12.04                   | 6.64                       | NM                        | NM   |
| SB01           | 10/11/05    | 14.98                   | 8.72                       | 95.82                     | 87.10                                      |
| SB02           | 10/11/05    | 12.68                   | 9.24                       | 96.06                     | 86.82                                      |
|                | 01/20/06    | 12.68                   | 8.35                       | 96.06                     | 87.71                                      |
|                | 03/28/07    | 12.68                   | 7.62                       | 96.06                     | 88.44                                      |
| SB02R          | 02/24/09    | 12.72                   | 3.15                       | NM                        | NM   |
|                | 05/26/09    | 12.72                   | 0.75                       | NM                        | NM   |
|                | 08/31/09    | 12.72                   | 4.06                       | NM                        | NM   |
|                | 12/29/09    | 12.72                   | 0.00                       | NM                        | NM   |
|                | 03/11/10    | 12.72                   | 1.37                       | NM                        | NM   |
| SB02R(2)       | 07/28/10    | 10.14                   | 5.20                       | NM                        | NM   |
|                | 10/26/10    | 10.14                   | 5.84                       | NM                        | NM   |
| SB03           | 10/11/05    | 15.01                   | 9.50                       | 96.06                     | 86.56                                      |
|                | 01/20/06    | 15.01                   | 8.45                       | 96.06                     | 87.61                                      |
|                | 03/28/07    | 15.01                   | 7.64                       | 96.06                     | 88.42                                      |
|                | 08/05/08    | 15.01                   | 6.34                       | 96.06                     | 89.72                                      |
|                | 11/24/08    | 15.01                   | 3.44                       | 96.06                     | 92.62                                      |
|                | 02/24/09    | 15.01                   | 3.05                       | 96.06                     | 93.01                                      |
|                | 05/26/09    | 15.01                   | 0.85                       | 96.06                     | 95.21                                      |
|                | 08/31/09    | 15.01                   | 3.58                       | 96.06                     | 92.48                                      |
|                | 12/29/09    | 15.01                   | 1.90                       | 96.06                     | 94.16                                      |
|                | 03/11/10    | 15.01                   | 1.15                       | 96.06                     | 94.91                                      |
|                | 07/28/10    | 14.89                   | 3.40                       | 96.06                     | 92.66                                      |
|                | 10/26/10    | 14.89                   | 4.23                       | 96.06                     | 91.83                                      |
|                | SB04        | 10/11/05                | 12.86                      | 10.04                     | 97.26                                      |
| SB05           | 10/11/05    | 12.09                   | 8.18                       | 94.48                     | 86.30                                      |
| SB06           | 10/11/05    | 12.27                   | 8.56                       | 94.71                     | 86.15                                      |
|                | 01/20/06    | 12.27                   | 7.60                       | 94.71                     | 87.11                                      |
|                | 03/28/07    | 12.27                   | 6.94                       | 94.71                     | 87.77                                      |

**TABLE 1 (CONTINUED)  
GROUNDWATER ELEVATION SUMMARY**

**FRICK 18 - 2 & 8  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

| <b>Well ID</b> | <b>Date</b> | <b>Total Depth (ft)</b> | <b>Depth to Water (ft)</b> | <b>TOC Elevation (ft)</b> | <b>Groundwater Elevation (relative ft)</b> |
|----------------|-------------|-------------------------|----------------------------|---------------------------|--|
| SB07           | 10/11/05    | 12.30                   | 8.86                       | 94.98                     | 86.12                                      |
|                | 01/20/06    | 12.30                   | 7.85                       | 94.98                     | 87.13                                      |
|                | 03/28/07    | 12.30                   | 7.18                       | 94.98                     | 87.80                                      |
|                | 02/24/09    | 12.30                   | 2.63                       | 94.98                     | 92.35                                      |
|                | 05/26/09    | 12.30                   | 0.55                       | 94.98                     | 94.43                                      |
|                | 08/31/09    | 12.30                   | 3.07                       | 94.98                     | 91.91                                      |
|                | 12/29/09    | 12.30                   | 1.50                       | 94.98                     | 93.48                                      |
|                | 03/11/10    | 12.30                   | 0.73                       | 94.98                     | 94.25                                      |
|                | 07/28/10    | 11.78                   | 3.01                       | 94.98                     | 91.97                                      |
|                | 10/26/10    | 11.78                   | 3.79                       | 94.98                     | 91.19                                      |
| SB08           | 01/20/06    | 12.18                   | 7.79                       | NM                        | NM   |
| SB09           | 05/28/09    | 15.04                   | 0.10                       | NM                        | NM   |
|                | 08/31/09    | 15.04                   | 2.78                       | NM                        | NM   |
|                | 12/29/09    | 15.04                   | 1.20                       | NM                        | NM   |
|                | 03/11/10    | 15.04                   | 0.40                       | NM                        | NM   |
|                | 07/28/10    | 14.81                   | 2.96                       | NM                        | NM   |
|                | 10/26/10    | 14.81                   | 3.61                       | NM                        | NM   |
| SB10R          | 05/28/09    | 13.68                   | 0.30                       | NM                        | NM   |
|                | 08/31/09    | 13.68                   | 1.63                       | NM                        | NM   |
|                | 12/29/09    | 13.68                   | 0.82                       | NM                        | NM   |
|                | 03/17/10    | 13.68                   | 0.10                       | NM                        | NM   |
| SB10R(2)       | 07/28/10    | 10.13                   | 2.96                       | NM                        | NM   |
|                | 10/26/10    | 10.13                   | 3.63                       | NM                        | NM   |
| SB11           | 10/11/05    | 11.95                   | 7.80                       | 92.87                     | 85.07                                      |
|                | 01/20/06    | 11.95                   | 6.66                       | 92.87                     | 86.21                                      |
|                | 03/28/07    | 11.95                   | 6.06                       | 92.87                     | 86.81                                      |
|                | 08/05/08    | 11.95                   | 4.75                       | 92.87                     | 88.12                                      |
|                | 11/24/08    | 11.95                   | 1.89                       | 92.87                     | 90.98                                      |
|                |             |                         |                            |                           |  |
| SB12           | 10/11/05    | 11.68                   | 8.23                       | 93.04                     | 84.81                                      |
|                | 01/20/06    | 11.68                   | 6.86                       | 93.04                     | 86.18                                      |
|                | 03/28/07    | 11.68                   | 6.13                       | 93.04                     | 86.91                                      |
| SB13           | 10/11/05    | 11.79                   | 10.23                      | 92.27                     | 82.04                                      |
|                | 01/20/06    | 11.79                   | 9.35                       | 92.27                     | 82.92                                      |
|                | 03/28/07    | 11.79                   | 8.59                       | 92.27                     | 83.86                                      |
| SB14           | 10/11/05    | 12.11                   | 9.95                       | 92.63                     | 82.68                                      |
|                | 01/20/06    | 12.11                   | 9.01                       | 92.63                     | 83.62                                      |
|                | 03/28/07    | 12.11                   | 8.83                       | 92.63                     | 83.80                                      |
|                | 08/05/08    | 12.11                   | 6.07                       | 92.63                     | 86.56                                      |
| SB15           | 10/11/05    | 12.01                   | 10.05                      | 92.80                     | 82.75                                      |
|                | 01/20/06    | 12.01                   | 9.11                       | 92.80                     | 83.69                                      |
|                | 03/28/07    | 12.01                   | 8.95                       | 92.80                     | 83.85                                      |
|                | 08/05/08    | 12.01                   | 7.51                       | 92.80                     | 85.29                                      |
|                | 11/24/08    | 12.01                   | 5.29                       | 92.80                     | 87.51                                      |
|                | 02/24/09    | 12.01                   | 4.41                       | 92.80                     | 88.39                                      |
|                | 05/26/09    | 12.01                   | 0.90                       | 92.80                     | 91.90                                      |
|                | 08/31/09    | 12.01                   | 4.50                       | 92.80                     | 88.30                                      |
|                | 12/29/09    | 12.01                   | 3.08                       | 92.80                     | 89.72                                      |
|                | 03/11/10    | 12.01                   | 1.66                       | 92.80                     | 91.14                                      |
|                | 07/28/10    | 8.81                    | 4.69                       | 92.80                     | 88.11                                      |
|                | 10/26/10    | 8.81                    | 5.62                       | 92.80                     | 87.18                                      |

**TABLE 1 (CONTINUED)  
GROUNDWATER ELEVATION SUMMARY**

**FRICK 18 - 2 & 8  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

| <b>Well ID</b> | <b>Date</b> | <b>Total Depth (ft)</b> | <b>Depth to Water (ft)</b> | <b>TOC Elevation (ft)</b> | <b>Groundwater Elevation (relative ft)</b> |
|----------------|-------------|-------------------------|----------------------------|---------------------------|--|
| SB16           | 10/11/05    | 12.06                   | 9.27                       | 92.21                     | 82.94                                      |
|                | 01/20/06    | 12.06                   | 8.38                       | 92.21                     | 83.83                                      |
|                | 03/28/07    | 12.06                   | 8.26                       | 92.21                     | 83.95                                      |
|                | 08/05/08    | 12.06                   | 6.96                       | 92.21                     | 85.25                                      |
|                | 11/14/08    | 12.06                   | 5.62                       | 92.21                     | 86.59                                      |
|                | 11/24/08    | 12.06                   | 4.81                       | 92.21                     | 87.40                                      |
|                | 02/24/09    | 12.06                   | 3.92                       | 92.21                     | 88.29                                      |
|                | 08/31/09    | 12.06                   | 4.00                       | 92.21                     | 88.21                                      |
|                | 12/29/09    | 12.06                   | 2.49                       | 92.21                     | 89.72                                      |
|                | 03/17/10    | 12.06                   | 2.30                       | 92.21                     | 89.91                                      |
|                | 07/28/10    | 12.04                   | 4.24                       | 92.21                     | 87.97                                      |
| 10/26/10       | 12.04       | 5.02                    | 92.21                      | 87.19                     |  |
| SB17           | 10/11/05    | 14.56                   | 11.02                      | 101.25                    | 90.23                                      |
| SB18           | 10/11/05    | 12.00                   | 8.66                       | 93.63                     | 84.97                                      |
|                | 01/20/06    | 12.00                   | 7.72                       | 93.63                     | 85.91                                      |
| SB18R          | 02/24/09    | 12.86                   | 3.22                       | NM                        | NM   |
|                | 05/28/09    | 12.86                   | 0.74                       | NM                        | NM   |
| SB19           | 10/11/05    | 12.08                   | 9.23                       | 92.37                     | 83.14                                      |
|                | 01/20/06    | 12.08                   | 8.39                       | 92.37                     | 83.98                                      |
|                | 03/28/07    | 12.08                   | 8.27                       | 92.37                     | 84.10                                      |
| SB20           | 10/11/05    | 13.27                   | 11.54                      | 93.31                     | 81.77                                      |
|                | 01/20/06    | 13.27                   | 8.65                       | 93.31                     | 84.66                                      |
|                | 03/28/07    | 13.27                   | 10.37                      | 93.31                     | 82.94                                      |
|                | 08/05/08    | 13.27                   | 9.38                       | 93.31                     | 83.93                                      |
|                | 11/24/08    | 13.27                   | 7.18                       | 93.31                     | 86.13                                      |
|                | 02/24/09    | 13.30                   | 6.26                       | 93.31                     | 87.05                                      |
| 05/26/09       | 13.30       | 3.00                    | 93.31                      | 90.31                     |  |
| SB21           | 10/11/05    | 13.90                   | 9.91                       | 91.36                     | 81.45                                      |
|                | 01/20/06    | 13.90                   | 7.89                       | 91.36                     | 83.47                                      |
|                | 03/28/07    | 13.90                   | 9.60                       | 91.36                     | 81.76                                      |
|                | 11/24/08    | 13.90                   | 5.13                       | 91.36                     | 86.23                                      |
| SB22           | 10/11/05    | 13.93                   | 9.31                       | 90.57                     | 81.26                                      |
| SB23           | 10/11/05    | 13.70                   | 8.40                       | 89.98                     | 81.58                                      |
|                | 01/20/06    | 13.70                   | 7.15                       | 89.98                     | 82.83                                      |
|                | 03/28/07    | 13.70                   | 8.88                       | 89.98                     | 81.10                                      |
|                | 11/24/08    | 13.70                   | 4.19                       | 89.98                     | 85.79                                      |
| SB24           | 10/11/05    | 13.69                   | 8.00                       | 88.90                     | 80.90                                      |
|                | 01/20/06    | 13.69                   | 6.65                       | 88.90                     | 82.25                                      |
|                | 03/28/07    | 13.69                   | 8.58                       | 88.90                     | 80.32                                      |
|                | 11/24/08    | 13.69                   | 3.72                       | 88.90                     | 85.18                                      |

**TABLE 1 (CONTINUED)  
GROUNDWATER ELEVATION SUMMARY**

**FRICK 18 - 2 & 8  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

| <b>Well ID</b> | <b>Date</b> | <b>Total Depth (ft)</b> | <b>Depth to Water (ft)</b> | <b>TOC Elevation (ft)</b> | <b>Groundwater Elevation (relative ft)</b> |
|----------------|-------------|-------------------------|----------------------------|---------------------------|--|
| SB25           | 10/11/05    | 13.77                   | 7.90                       | 88.48                     | 80.58                                      |
|                | 11/24/08    | 13.77                   | 3.58                       | 88.48                     | 84.90                                      |
| SB26           | 10/11/05    | 11.94                   | 8.91                       | 93.85                     | 84.94                                      |
| SB27           | 02/24/09    | 13.35                   | 3.81                       | NM                        | NM   |
|                | 05/26/09    | 13.35                   | 1.53                       | NM                        | NM   |
|                | 08/31/09    | 13.35                   | 4.88                       | NM                        | NM   |
|                | 01/07/10    | 13.35                   | 3.20                       | NM                        | NM   |
|                | 03/11/10    | 13.35                   | 1.76                       | NM                        | NM   |
|                | 10/26/10    |                         |                            |                           | Destroyed                                  |

**Notes:**

ft - feet

NM - Not measured

All depths measured from the north side of the top of the casing (TOC).

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS**

**FRICK 18 - 2 & 8**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC**

| Sample ID | Sample Date  | Volatile Organic Compounds (ug/L) |         |              |               |
|-----------|--------------|-----------------------------------|---------|--------------|---------------|
|           |              | Benzene                           | Toluene | Ethylbenzene | Total Xylenes |
| MW01      | 10/11/2005   | <b>1,200</b>                      | 4.2     | 150          | 562           |
|           | 1/20/2006    | <b>1,700</b>                      | <20     | 39           | 337           |
|           | 3/28/2007    | <b>1,200</b>                      | <20.0   | 27           | 260           |
|           | 8/5/2008     | <b>7,770</b>                      | 111     | 97.6         | 812.2         |
|           | 11/14/2008   | <b>9,450</b>                      | 129     | 272          | <b>2,858</b>  |
|           | 11/24/2008   | <b>9,210</b>                      | 56.8    | 50.1         | <b>2,573</b>  |
|           | 2/24/2009    | <b>6,130</b>                      | 23.9    | 65.7         | 571.7         |
|           | 5/26/2009    | <b>9,680</b>                      | 56.1    | 633          | 1,027         |
|           | 8/31/2009    | <b>7,000</b>                      | 2.53    | 163          | 763.84        |
|           | 12/29/2009   | <b>919</b>                        | <1.0    | 5.64         | 35.26         |
| 3/11/2010 | <b>3,820</b> | 11.3                              | 150     | 459.8        |               |
| MW01R     | 7/28/2010    | <b>114</b>                        | 25.8    | 43.5         | 241           |
|           | 10/26/2010   | <b>560</b>                        | <1.0    | <1.0         | 339           |
| MW02      | 10/11/2005   | <b>390</b>                        | <1.0    | 15           | 285           |
|           | 1/20/2006    | <1.0                              | <1.0    | <1.0         | <3.0          |
|           | 3/28/2007    | 1.5                               | <2.0    | <2.0         | 7.2           |
|           | 8/5/2008     | <b>53.8</b>                       | <1.0    | 66.7         | 381.7         |
|           | 11/24/2008   | 2.15                              | <1.0    | <1.0         | 8.1           |
|           | 2/24/2009    | <b>88.5</b>                       | <1.0    | 100          | 655.6         |
|           | 5/26/2009    | <b>65</b>                         | <1.0    | 171          | 1,736.7       |
|           | 8/31/2009    | <b>6.81</b>                       | <1.0    | <1.0         | 2.72          |
|           | 12/29/2009   | 1.28                              | <1.0    | 1.62         | 14.6          |
|           | 3/11/2010    | <b>7.78</b>                       | <1.0    | 28.3         | 203           |
| MW02R     | 7/28/2010    | 2.38                              | 1.99    | 130          | 207           |
|           | 10/26/2010   | 1.43                              | 1.70    | 122          | 424           |
| SB01      | 6/16/2005    | < 1.0                             | < 1.0   | < 1.0        | <3.0          |
| SB02      | 6/16/2005    | <b>48</b>                         | 39.8    | 508          | <b>7,160</b>  |
|           | 10/11/2005   | 3.6                               | <1.0    | 170          | <b>7,078</b>  |
|           | 1/20/2006    | <1.0                              | <1.0    | 190          | 586           |
|           | 3/28/2007    | 1.2                               | <2.0    | 49           | 38            |
|           | 8/5/2008     |                                   |         | Destroyed    |               |
| SB02R     | 2/24/2009    | <b>30.4</b>                       | 1.91    | 48.9         | 266.54        |
|           | 5/26/2009    | <b>32.1</b>                       | <1.0    | 6.7          | 48.5          |
|           | 8/31/2009    | <b>183</b>                        | <1.0    | 383          | <b>3,055</b>  |
|           | 12/29/2009   | 2.23                              | <1.0    | <1.0         | 24.41         |
|           | 3/11/2010    | <b>97.6</b>                       | <1.0    | 58.5         | 87.6          |
| SB02R(2)  | 7/28/2010    | <b>5.17</b>                       | <1.0    | 44.8         | 122           |
|           | 10/26/2010   | <b>20.0</b>                       | <1.0    | 8.87         | <1.0          |
| SB03      | 6/16/2005    | <b>630</b>                        | 892     | 182          | <b>2,070</b>  |
|           | 10/11/2005   | <b>4,800</b>                      | 280     | 280          | <b>2,150</b>  |
|           | 1/20/2006    | <b>2,400</b>                      | 38      | 170          | 960           |
|           | 3/28/2007    | <b>350</b>                        | <20.0   | 230          | 1,300         |
|           | 8/5/2008     | < 1.0                             | < 1.0   | < 1.0        | 3.41          |
|           | 11/24/2008   | <1.0                              | <1.0    | <1.0         | <3.0          |
|           | 2/24/2009    | <1.0                              | <1.0    | 26.6         | 178           |
|           | 5/26/2009    | <1.0                              | <1.0    | 16.9         | 86.4          |
|           | 8/31/2009    | <1.0                              | <1.0    | 8.75         | 9.01          |
|           | 12/29/2009   | <1.0                              | <1.0    | 13.2         | 52            |
|           | 3/11/2010    | <1.0                              | <1.0    | 34.3         | 110           |
|           | 7/28/2010    | <1.0                              | <1.0    | 8.06         | 21.7          |
|           | 10/26/2010   | <1.0                              | <1.0    | 6.65         | 8.44          |
| SB04      | 6/16/2005    | 4.8                               | 31.7    | 46.0         | 62.6          |
| SB05      | 6/16/2005    | < 1.0                             | 2.9     | 3.5          | 41.8          |

**TABLE 2 (CONTINUED)**  
**GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS**

**FRICK 18 - 2 & 8**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC**

| Sample ID  | Sample Date | Volatile Organic Compounds (ug/L) |         |              |               |
|------------|-------------|-----------------------------------|---------|--------------|---------------|
|            |             | Benzene                           | Toluene | Ethylbenzene | Total Xylenes |
| SB06       | 6/16/2005   | 9.1                               | 80.3    | 106          | 881           |
|            | 10/11/2005  | 2.9                               | <1.0    | 47           | 221           |
|            | 1/20/2006   | <1.0                              | <1.0    | 16           | 61.5          |
|            | 3/28/2007   | <1.0                              | <2.0    | <2.0         | <6.0          |
| SB07       | 6/16/2005   | 7,120                             | 3,090   | 433          | 4,610         |
|            | 10/11/2005  | 6,400                             | 200     | 510          | 1,000         |
|            | 1/20/2006   | 3,300                             | 1.2     | 230          | 1,698         |
|            | 3/28/2007   | 2,100                             | <100.0  | 210          | 1,800         |
|            | 2/24/2009   | <1.0                              | <1.0    | 10.4         | 76.7          |
|            | 5/26/2009   | <1.0                              | <1.0    | <1.0         | 5.12          |
|            | 8/31/2009   | <1.0                              | <1.0    | 9.48         | 63.8          |
|            | 12/29/2009  | <1.0                              | <1.0    | 56.2         | 462.08        |
|            | 3/11/2010   | <1.0                              | <1.0    | 135          | 517.82        |
|            | 7/28/2010   | 1.86                              | 2.99    | 79.2         | 381           |
| 10/26/2010 | <1.0        | <1.0                              | 25.6    | 108          |               |
| SB08       | 6/16/2005   | 69.0                              | 80.4    | 15.5         | 175           |
|            | 1/20/2006   | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 3/28/2007   | <1.0                              | <2.0    | <2.0         | <6.0          |
| SB09       | 6/16/2005   | 11.1                              | 7.1     | 2.4          | 27.8          |
|            | 1/20/2006   | 1,800                             | <1.0    | 130          | 1,016         |
|            | 3/28/2007   | 68                                | <2.0    | 25           | 200           |
|            | 2/24/2009   | 59                                | <1.0    | <1.0         | <3.0          |
|            | 5/28/2009   | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 8/31/2009   | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 12/29/2009  | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 3/11/2010   | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 7/28/2010   | <1.0                              | <1.0    | <1.0         | <1.0          |
|            | 10/26/2010  | <1.0                              | <1.0    | <1.0         | <1.0          |
| SB10       | 6/16/2005   | 3,260                             | 1,180   | 211          | 2,910         |
|            | 10/11/2005  | 1,900                             | 450     | 230          | 2,030         |
|            | 1/20/2006   | 1,900                             | 150     | 170          | 1,350         |
|            | 3/28/2007   | 1,600                             | <20.0   | 190          | 1,756         |
|            | 8/5/2008    | 40.6                              | <1.0    | 33.0         | 68.1          |
|            | 11/24/2008  |                                   |         | Destroyed    |               |
| SB10R      | 2/24/2009   | 213                               | <1.0    | 124          | 662           |
|            | 5/28/2009   | 47.6                              | <1.0    | 23           | 102           |
|            | 8/31/2009   | 17.3                              | <1.0    | 2.68         | 5.36          |
|            | 12/29/2009  | 12.1                              | <1.0    | 57.7         | 392           |
|            | 3/17/2010   | 8.86                              | <1.0    | 76.3         | 299           |
| SB10R(2)   | 7/28/2010   | 20.1                              | 1.05    | 173          | 215           |
|            | 10/26/2010  | 6.52                              | <1.0    | 47.5         | 24.9          |
| SB11       | 6/17/2005   | 17.6                              | 57.4    | 185          | 590           |
|            | 10/14/2005  | 1.8                               | <1.0    | 92           | 240           |
|            | 1/20/2006   | <1.0                              | <1.0    | 15           | 34            |
|            | 3/28/2007   | <1.0                              | <2.0    | 7.9          | 12            |
|            | 8/5/2008    | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 11/24/2008  | <1.0                              | <1.0    | <1.0         | <3.0          |
| SB12       | 6/17/2005   | 15.1                              | 28.7    | 10.2         | 103           |
|            | 10/11/2005  | 1.1                               | <1.0    | <1.0         | 2.1           |
|            | 1/20/2006   | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 3/28/2007   | <1.0                              | <2.0    | <2.0         | <6.0          |
| SB13       | 6/17/2005   | 9.2                               | 17.3    | 6.1          | 65.4          |
|            | 10/11/2005  | 2.4                               | <1.0    | <1.0         | 4.6           |
|            | 1/20/2006   | <1.0                              | <1.0    | <1.0         | <3.0          |
|            | 3/28/2007   | <1.0                              | <2.0    | <2.0         | <6.0          |

**TABLE 2 (CONTINUED)**  
**GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS**

**FRICK 18 - 2 & 8**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC**

| Sample ID | Sample Date | Volatile Organic Compounds (ug/L) |              |              |               |
|-----------|-------------|-----------------------------------|--------------|--------------|---------------|
|           |             | Benzene                           | Toluene      | Ethylbenzene | Total Xylenes |
| SB14      | 6/17/2005   | <b>7.5</b>                        | 15.4         | 7.0          | 66.3          |
|           | 10/11/2005  | <b>17</b>                         | <1.0         | 54           | 150           |
|           | 1/20/2006   | 1.0                               | <1.0         | 5.3          | 5.6           |
|           | 3/28/2007   | <1.0                              | <2.0         | <2.0         | <6.0          |
|           | 8/5/2008    | <1.0                              | <1.0         | <1.0         | <3.0          |
| SB15      | 6/17/2005   | <b>21.4</b>                       | 19.0         | 35.0         | 812           |
|           | 10/11/2005  | <b>14</b>                         | <1.0         | 15           | 110           |
|           | 1/20/2006   | <1.0                              | <1.0         | 5.4          | <3.0          |
|           | 3/28/2007   | 2.9                               | <2.0         | 61.0         | 101.7         |
|           | 8/5/2008    | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 11/24/2008  | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 2/24/2009   | <1.0                              | <1.0         | 2.15         | 2.73          |
|           | 5/26/2009   | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 8/31/2009   | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 12/29/2009  | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 3/11/2010   | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 7/28/2010   | <1.0                              | <1.0         | <1.0         | <1.0          |
|           | 10/26/2010  | <1.0                              | <1.0         | <1.0         | <1.0          |
| SB16      | 6/17/2005   | <b>7,630</b>                      | <b>8,210</b> | 463          | <b>6,770</b>  |
|           | 10/11/2005  | <b>5,400</b>                      | <b>4,600</b> | 470          | <b>5,280</b>  |
|           | 1/20/2006   | <b>4,300</b>                      | <b>4,300</b> | 290          | <b>3,530</b>  |
|           | 3/28/2007   | <b>2,600</b>                      | <b>4,400</b> | 400          | <b>5,860</b>  |
|           | 8/5/2008    | <b>933</b>                        | 86.7         | 395          | <b>3,831</b>  |
|           | 11/14/2008  | <1.0                              | <1.0         | 3.31         | 4.75          |
|           | 11/24/2008  | <b>727</b>                        | 45.9         | 562          | <b>6,906</b>  |
|           | 2/24/2009   | <b>196</b>                        | 13.4         | 453          | <b>5,093</b>  |
|           | 8/31/2009   | 4.1                               | <1.0         | 111          | 694           |
|           | 12/29/2009  | <1.0                              | <1.0         | 55.3         | 391           |
|           | 3/17/2010   | <1.0                              | <1.0         | 2.33         | 14.9          |
|           | 7/28/2010   | <1.0                              | 1.27         | 93.7         | 168           |
|           | 10/26/2010  | <1.0                              | 1.62         | 201          | 491           |
| SB17      | 6/27/2005   | < 1.0                             | < 1.0        | < 1.0        | < 3.0         |
| SB18      | 6/17/2005   | 1,060                             | 190          | 6.2          | 870           |
|           | 10/11/2005  | <b>1,000</b>                      | 18           | 290          | <b>2,778</b>  |
|           | 1/20/2006   | <b>41</b>                         | 50           | 35           | 700           |
|           | 3/28/2007   | Destroyed                         |              |              |               |
| SB18R     | 2/24/2009   | <1.0                              | <1.0         | 103          | 428.05        |
|           | 5/28/2009   | <1.0                              | <1.0         | 8.16         | 27.6          |
| SB19      | 6/17/2005   | <b>29.9</b>                       | 51.3         | 9.6          | 109           |
|           | 10/11/2005  | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 1/20/2006   | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 3/28/2007   | <1.0                              | <2.0         | <2.0         | <6.0          |
| SB20      | 7/18/2005   | <b>5,640</b>                      | < 10         | 321          | <b>4,780</b>  |
|           | 10/11/2005  | <b>2,800</b>                      | 2.0          | 260          | <b>2,500</b>  |
|           | 1/20/2006   | < <b>50</b>                       | <50          | <1.0         | 2.8           |
|           | 3/28/2007   | <b>140</b>                        | <2.0         | 21           | 130           |
|           | 8/5/2008    | <b>25.3</b>                       | <1.0         | 28.9         | 200.46        |
|           | 11/24/2008  | 2.74                              | <1.0         | <1.0         | 7.98          |
|           | 2/24/2009   | 1.12                              | <1.0         | 4.26         | 20.0          |
| 5/26/2009 | <1.0        | <1.0                              | <1.0         | <3.0         |               |
| SB21      | 7/18/2005   | <b>209</b>                        | < 1.0        | 1.9          | 22.3          |
|           | 10/11/2005  | <b>11</b>                         | < 1.0        | <1.0         | <3.0          |
|           | 1/20/2006   | <1.0                              | <1.0         | <1.0         | <3.0          |
|           | 3/28/2007   | <1.0                              | <2.0         | <2.0         | <6.0          |
|           | 11/24/2008  | <1.0                              | <1.0         | 11.8         | 49.5          |

**TABLE 2 (CONTINUED)**  
**GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS**

**FRICK 18 - 2 & 8**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC**

| Sample ID   | Sample Date | Volatile Organic Compounds (ug/L) |            |              |               |
|---|-------------|-----------------------------------|------------|--------------|---------------|
|   |             | Benzene                           | Toluene    | Ethylbenzene | Total Xylenes |
| SB22  | 7/18/2005   | < 1.0                             | < 1.0      | < 1.0        | 3.2           |
| SB23  | 7/18/2005   | <b>13.2</b>                       | < 1.0      | 1.5          | 22.8          |
|   | 10/11/2005  | <1.0                              | < 1.0      | <1.0         | <3.0          |
|   | 1/20/2006   | 1.0                               | <1.0       | <1.0         | <3.0          |
|   | 3/28/2007   | <1.0                              | <2.0       | <2.0         | <6.0          |
|   | 11/24/2008  | <1.0                              | <1.0       | <1.0         | <3.0          |
| SB24  | 7/18/2005   | <b>21.0</b>                       | < 1.0      | 2.7          | 38.9          |
|   | 10/11/2005  | <1.0                              | <1.0       | <1.0         | <3.0          |
|   | 1/20/2006   | <1.0                              | < 1.0      | <1.0         | <3.0          |
|   | 3/28/2007   | <1.0                              | <2.0       | <2.0         | <6.0          |
|   | 11/24/2008  | <1.0                              | <1.0       | <1.0         | <3.0          |
| SB25  | 7/18/2005   | < 1.0                             | < 1.0      | < 1.0        | 7             |
|   | 11/24/2008  | <1.0                              | <1.0       | <1.0         | <3.0          |
| SB26  | 7/18/2005   | 1.8                               | 4.7        | 51.4         | 648           |
| SB27  | 2/24/2009   | <b>24.7</b>                       | 494        | 91.9         | 1,077         |
|   | 5/26/2009   | <b>11.1</b>                       | 188        | <1.0         | 421.9         |
|   | 8/31/2009   | <b>90.5</b>                       | 300        | 18.6         | 348.4         |
|   | 1/7/2010    | 3.64                              | 144        | 17.3         | 311.3         |
|   | 3/11/2010   | 2.44                              | 12.0       | 11.4         | 92.7          |
|   | 10/26/2010  |                                   | Destroyed  |              |               |
| Water Well  | 6/17/2005   | < 1.0                             | < 1.0      | < 1.0        | < 3.0         |
|   | 10/11/2005  | < 1.0                             | < 1.0      | < 1.0        | < 3.0         |
|   | 1/20/2006   | < 1.0                             | < 1.0      | < 1.0        | < 3.0         |
|   | 3/28/2007   | <1.0                              | <2.0       | <2.0         | <6.0          |
| <b>CDPHE-WQCC Regulation 41 Groundwater Standards</b> |             | <b>5.0</b>                        | <b>560</b> | <b>700</b>   | <b>1,400</b>  |

**Notes:**

ug/L - micrograms per liter

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

**Bold** indicates concentration exceeds CDPHE-WQCC Regulation 41 Groundwater Standards

Analysis by Environmental Protection Agency Method 8260B.

< indicates analytical result is less than the laboratory detection limit

**ATTACHMENT 1**  
**LABORATORY ANALYTICAL RESULTS**

10/29/2010

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada

CO

80003

Project Name- Noble - Frick 18-2&8

Project Number- NEP0505

Attached are your analytical results for Noble - Frick 18-2&8 received by Origins Laboratory, Inc. October 26, 2010 4:20 pm. This project is associated with Origins project number X010218-01 .

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: NEPO505  
Project: Noble - Frick 18-2&8

## CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled               | Date Received    |
|-----------|---------------|--------|-----------------------|------------------|
| MW01R     | X010218-01    | Water  | 10/26/2010 2:15:00PM  | 10/26/2010 16:20 |
| MW02R     | X010218-02    | Water  | 10/26/2010 2:00:00PM  | 10/26/2010 16:20 |
| SB02R(2)  | X010218-03    | Water  | 10/26/2010 1:40:00PM  | 10/26/2010 16:20 |
| SB03      | X010218-04    | Water  | 10/26/2010 1:20:00PM  | 10/26/2010 16:20 |
| SB07      | X010218-05    | Water  | 10/26/2010 12:40:00PM | 10/26/2010 16:20 |
| SB09      | X010218-06    | Water  | 10/26/2010 12:20:00PM | 10/26/2010 16:20 |
| SB16      | X010218-07    | Water  | 10/26/2010 11:55:00AM | 10/26/2010 16:20 |
| SB15      | X010218-08    | Water  | 10/26/2010 11:40:00AM | 10/26/2010 16:20 |
| SB10R(2)  | X010218-09    | Water  | 10/26/2010 1:00:00PM  | 10/26/2010 16:20 |

Origins Laboratory, Inc.



Noelle E Doyle,

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

Rob Rebel  
 Project Number: NEP0505  
 Project: Noble - Frick 18-2&8

www.originslaboratory.com

1010218

page 1 of 1

Client: LTE  
 Address: 4600 W 60th Arvada, CO  
 Telephone Number: 303-962-5558  
 Email Address: rr@ltenv.com

Project Manager: Rob Rebel  
 Project Name: Frick 18-2&8  
 Project Number: NEP 0505  
 Samples Collected By: R. Guillet

| Sample ID Description | Date Sampled | Time Sampled | # of Containers    | Preservative |       |                                   |       | Matrix      |      |                         | Analysis | Sample Instructions | Turnaround Time:                          |
|-----------------------|--------------|--------------|--------------------|--------------|-------|-----------------------------------|-------|-------------|------|-------------------------|----------|---------------------|---|
|                       |              |              |                    | Unpreserved  | HCl   | HNO <sub>3</sub>                  | Other | Groundwater | Soil | Air Summa<br>Canister # |          |                     |   |
| MW01R                 | 10/26/10     | 1415         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     | 24 Hr <input type="checkbox"/>            |
| MW02R                 |              | 1400         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     | 48 Hr <input type="checkbox"/>            |
| SB02R (2)             |              | 1340         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     | 72 Hr <input checked="" type="checkbox"/> |
| SB03                  |              | 1320         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     | Standard <input type="checkbox"/>         |
| SB07                  |              | 1240         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     |   |
| SB09                  |              | 1320         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     |   |
| SB16                  |              | 1155         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     |   |
| SB15                  |              | 1140         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     |   |
| SB10R (2)             |              | 1300         | 3                  | X            |       |                                   |       | X           | X    |                         |          |                     |   |
| Relinquished By:      | Date:        | Time:        | Received By:       | Date:        | Time: | Turnaround Time:                  |       |             |      |                         |          |                     |   |
| <i>[Signature]</i>    | 10/26/10     | 1620         | <i>[Signature]</i> | 10/20/10     | 1620  | Same Day <input type="checkbox"/> |       |             |      |                         |          |                     |   |
| Relinquished By:      | Date:        | Time:        | Received By:       | Date:        | Time: | Standard <input type="checkbox"/> |       |             |      |                         |          |                     |   |
| <i>[Signature]</i>    |              |              | <i>[Signature]</i> | 10/20/10     | 1620  |                                   |       |             |      |                         |          |                     |   |

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

Origins Laboratory, Inc.

*[Handwritten Signature]*

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Noelle E Doyle,

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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**MW01R**

10/26/2010 2:15:00PM

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

Origins Laboratory, Inc.  
X010218-01 (Water)

**BTEX by EPA 8260B**

|                |     |      |      |     |         |            |            |  |
|----------------|-----|------|------|-----|---------|------------|------------|--|
| Benzene        | 560 | 200  | ug/L | 200 | 0J27002 | 10/27/2010 | 10/28/2010 |  |
| Toluene        | ND  | 1.00 | "    | 1   | "       | "          | 10/29/2010 |  |
| Ethylbenzene   | ND  | 1.00 | "    | "   | "       | "          | "          |  |
| Xylenes, total | 339 | 1.00 | "    | "   | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 106 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 95.8 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 100 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



Noelle E Doyle,

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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**MW02R**

10/26/2010 2:00:00PM

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

Origins Laboratory, Inc.  
X010218-02 (Water)

**BTEX by EPA 8260B**

|                |      |      |      |     |         |            |            |  |
|----------------|------|------|------|-----|---------|------------|------------|--|
| Benzene        | 1.43 | 1.00 | ug/L | 1   | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | 1.70 | 1.00 | "    | "   | "       | "          | "          |  |
| Ethylbenzene   | 122  | 1.00 | "    | "   | "       | "          | "          |  |
| Xylenes, total | 424  | 200  | "    | 200 | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 92.5 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 102 %  | 81.5-117 |  |  | " | " | " |  |

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\_\_\_\_\_  
Noelle E Doyle,

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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**SBO2R(2)**

10/26/2010 1:40:00PM

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

Origins Laboratory, Inc.  
XO10218-03 (Water)

**BTEX by EPA 8260B**

|                |      |      |      |   |         |            |            |  |
|----------------|------|------|------|---|---------|------------|------------|--|
| Benzene        | 20.0 | 1.00 | ug/L | 1 | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | ND   | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene   | 8.87 | 1.00 | "    | " | "       | "          | "          |  |
| Xylenes, total | ND   | 1.00 | "    | " | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 95.7 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 101 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



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Noelle E Doyle,

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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**SB03**

10/26/2010 1:20:00PM

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

Origins Laboratory, Inc.  
X010218-04 (Water)

**BTEX by EPA 8260B**

|                |      |      |      |   |         |            |            |  |
|----------------|------|------|------|---|---------|------------|------------|--|
| Benzene        | ND   | 1.00 | ug/L | 1 | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | ND   | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene   | 6.65 | 1.00 | "    | " | "       | "          | "          |  |
| Xylenes, total | 8.44 | 1.00 | "    | " | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 107 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 97.8 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 100 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**SB07**

10/26/2010 12:40:00PM

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

Origins Laboratory, Inc.  
X010218-05 (Water)

**BTEX by EPA 8260B**

|                |      |      |      |   |         |            |            |  |
|----------------|------|------|------|---|---------|------------|------------|--|
| Benzene        | ND   | 1.00 | ug/L | 1 | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | ND   | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene   | 25.6 | 1.00 | "    | " | "       | "          | "          |  |
| Xylenes, total | 108  | 1.00 | "    | " | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 97.2 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 102 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**SB09**

10/26/2010 12:20:00PM

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

Origins Laboratory, Inc.  
X010218-06 (Water)

**BTEX by EPA 8260B**

|                |    |      |      |   |         |            |            |  |
|----------------|----|------|------|---|---------|------------|------------|--|
| Benzene        | ND | 1.00 | ug/L | 1 | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | ND | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene   | ND | 1.00 | "    | " | "       | "          | "          |  |
| Xylenes, total | ND | 1.00 | "    | " | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 98.8 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 101 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



Noelle E Doyle,

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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**SB16**

10/26/2010 11:55:00AM

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

Origins Laboratory, Inc.  
X010218-07 (Water)

**BTEX by EPA 8260B**

|                |      |      |      |     |         |            |            |  |
|----------------|------|------|------|-----|---------|------------|------------|--|
| Benzene        | ND   | 1.00 | ug/L | 1   | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | 1.62 | 1.00 | "    | "   | "       | "          | "          |  |
| Ethylbenzene   | 201  | 1.00 | "    | "   | "       | "          | "          |  |
| Xylenes, total | 491  | 200  | "    | 200 | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 95.5 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 100 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



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\_\_\_\_\_  
Noelle E Doyle,

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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**SB15**

10/26/2010 11:40:00AM

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

Origins Laboratory, Inc.  
X010218-08 (Water)

**BTEX by EPA 8260B**

|                |    |      |      |   |         |            |            |  |
|----------------|----|------|------|---|---------|------------|------------|--|
| Benzene        | ND | 1.00 | ug/L | 1 | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | ND | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene   | ND | 1.00 | "    | " | "       | "          | "          |  |
| Xylenes, total | ND | 1.00 | "    | " | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 97.0 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 102 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



Noelle E Doyle,

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

Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**SB10R(2)**

10/26/2010 1:00:00PM

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

Origins Laboratory, Inc.  
X010218-09 (Water)

**BTEX by EPA 8260B**

|                |      |      |      |   |         |            |            |  |
|----------------|------|------|------|---|---------|------------|------------|--|
| Benzene        | 6.52 | 1.00 | ug/L | 1 | 0J27002 | 10/27/2010 | 10/29/2010 |  |
| Toluene        | ND   | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene   | 47.5 | 1.00 | "    | " | "       | "          | "          |  |
| Xylenes, total | 24.9 | 1.00 | "    | " | "       | "          | "          |  |

|                                  |        |          |  |  |   |   |   |  |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 %  | 73.5-130 |  |  | " | " | " |  |
| Surrogate: Toluene-d8            | 96.4 % | 79.3-113 |  |  | " | " | " |  |
| Surrogate: 4-Bromofluorobenzene  | 102 %  | 81.5-117 |  |  | " | " | " |  |

Origins Laboratory, Inc.



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\_\_\_\_\_  
Noelle E Doyle,

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

Rob Rebel  
 Project Number: NEPO505  
 Project: Noble - Frick 18-2&8

**Volatile Organic Compounds by EPA Method 8260B - Quality Control  
 Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch OJ27002 - EPA 5030B**

**Blank (OJ27002-BLK1)**

Prepared: 10/27/2010 Analyzed: 10/28/2010

|   |      |      |      |      |  |      |          |  |  |  |
|---|------|------|------|------|--|------|----------|--|--|--|
| 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 | "    |      |  |      |          |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 61.2 |      | "    | 62.5 |  | 98.0 | 73.5-130 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 64.3 |      | "    | 62.5 |  | 103  | 79.3-113 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 62.7 |      | "    | 62.5 |  | 100  | 81.5-117 |  |  |  |

**LCS (OJ27002-BSI)**

Prepared: 10/27/2010 Analyzed: 10/27/2010

|   |      |      |      |      |  |      |          |  |  |  |
|---|------|------|------|------|--|------|----------|--|--|--|
| Benzene                                 | 55.5 | 1.00 | ug/L | 50.0 |  | 111  | 77.3-128 |  |  |  |
| Toluene                                 | 57.2 | 1.00 | "    | 50.0 |  | 114  | 81.7-118 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 71.8 |      | "    | 62.5 |  | 115  | 73.5-130 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 66.7 |      | "    | 62.5 |  | 107  | 79.3-113 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 60.7 |      | "    | 62.5 |  | 97.1 | 81.5-117 |  |  |  |

**Matrix Spike (OJ27002-MSI)**

Source: X010204-02

Prepared: 10/27/2010 Analyzed: 10/27/2010

|   |      |      |      |      |    |      |          |  |  |  |
|---|------|------|------|------|----|------|----------|--|--|--|
| Benzene                                 | 56.7 | 1.00 | ug/L | 50.0 | ND | 113  | 74.5-132 |  |  |  |
| Toluene                                 | 57.8 | 1.00 | "    | 50.0 | ND | 116  | 74.2-116 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 72.8 |      | "    | 62.5 |    | 116  | 73.5-130 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 66.1 |      | "    | 62.5 |    | 106  | 79.3-113 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 60.7 |      | "    | 62.5 |    | 97.2 | 81.5-117 |  |  |  |

**Matrix Spike Dup (OJ27002-MSD1)**

Source: X010204-02

Prepared: 10/27/2010 Analyzed: 10/28/2010

|   |      |      |      |      |    |      |          |        |      |  |
|---|------|------|------|------|----|------|----------|--------|------|--|
| Benzene                                 | 56.6 | 1.00 | ug/L | 50.0 | ND | 113  | 74.5-132 | 0.0706 | 13.1 |  |
| Toluene                                 | 55.2 | 1.00 | "    | 50.0 | ND | 110  | 74.2-116 | 4.49   | 21.2 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 62.3 |      | "    | 62.5 |    | 99.6 | 73.5-130 |        |      |  |
| <i>Surrogate: Toluene-d8</i>            | 62.4 |      | "    | 62.5 |    | 99.9 | 79.3-113 |        |      |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 62.6 |      | "    | 62.5 |    | 100  | 81.5-117 |        |      |  |

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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Rob Rebel  
Project Number: NEP0505  
Project: Noble - Frick 18-2&8

**Notes and Definitions**

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

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