



October 15, 2008

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

RE: Environmental Site Assessment Results  
Collins 14-20 Tank Battery  
Weld County, Colorado

Dear Mr. Faraguna:

LT Environmental, Inc. (LTE) was retained by Noble Energy, Inc. (Noble) to conduct a limited Environmental Site Assessment (ESA) at the Collins 14-20 Tank Battery (Site) located on a vacant lot approximately 1,000 feet northeast of the intersection of Harvest Mile Road and East 136<sup>th</sup> Avenue in Weld County, Colorado (Figure 1). The purpose of this ESA was to define the horizontal and vertical extent of hydrocarbon-impacted soils and groundwater.

A previous Phase I/II investigation was conducted by ATC Associates, Inc. (ATC) on July 28, 2008 and August 19, 2008, respectively. Findings in the report titled, *Limited Phase II Environmental Site Assessment, Vacant Parcel, Harvest Road and E. 136<sup>th</sup> Avenue, Brighton, CO 80603*, were used by LTE to aid in delineation of the petroleum hydrocarbon impacts at the Site.

### **Field Observations**

LTE advanced a total of seven soil borings (SB01 through SB07) on September 25, 2008 (Figure 2). The soil borings were installed using a direct push/solid stem auger rig owned and operated by Dakota Drilling of Denver, Colorado. Installation of soil boring SB01 was attempted with direct push technology, only to encounter shallow refusal due to bedrock conditions at 10 to 11 feet below ground surface (bgs). The remainder of soil boring SB01 and all remaining borings were advanced with a solid stem auger. Split spoon samples were collected every 5 feet for field screening, lithologic characterization, and soil sample collection. Each soil boring was converted into a temporary groundwater monitoring well to allow for groundwater sample collection.

The soil borings were logged by an LTE geologist. The geologist inspected the soil for the presence of petroleum hydrocarbon odor and/or staining. A photo-ionization detector (PID) was used to determine the presence of volatile organic vapors. The soils were also characterized by visually inspecting the soil samples collected in transparent, four foot long, acetate sampling liners and split spoon core barrels. Soil borings SB01 through SB07 were completed to total depths ranging from 23 feet bgs to 25 feet bgs. Borehole lithologic logs are included as



Attachment 1. Depth to groundwater ranged from 17 feet bgs to 20 feet bgs. Estimated groundwater flow direction is northwest.

Soils identified at the Site were predominantly clayey, fine-grained sand that extended from the ground surface to depths ranging from approximately 5 feet bgs to 10 feet bgs. Beneath the clayey sand was weathered, fine-grained, clayey sandstone extending to a total depth of 25 feet bgs.

Field-identified soil impacts were observed in soil borings SB02 and SB03. The impacted soil interval was observed from 5 feet bgs to 12 feet bgs at soil boring location SB02, and from 15 feet bgs to 17 feet bgs at soil boring location SB03.

### **Soil Sampling**

Each soil boring was advanced using a solid-stem auger and field sampled using a split spoon core barrel. Field measurements were collected in order to identify the vertical extent of soil impacts. Soil samples were submitted for analysis based on the sample interval that exhibited visible soil staining or where the highest PID reading was observed. If field screening methods indicated no petroleum hydrocarbon impacts were present in the borehole, a soil sample was collected directly above the static water level.

Soil samples were transferred into laboratory-prepared, 4-ounce, wide-mouth glass jars. The soil samples were placed on ice and delivered with a completed chain-of-custody (COC) form to Origins Laboratory, Inc. (Origins) of Denver, Colorado. Soil samples were submitted for analysis of total volatile hydrocarbons-gasoline range organics (TVH-GRO) by United States Environmental Protection Agency (EPA) Method 8015M and for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B.

### **Soil Analytical Results**

The Colorado Oil and Gas Conservation Commission (COGCC) soil regulatory standard for TVH-GRO in sensitive areas is 1,000 milligrams per kilogram (mg/kg). Currently, there are no BTEX soil standards for exploration and production-related impacts.

Using the Colorado Department of Labor and Employment – Division of Oil and Public Safety (CDLE-OPS) Risk Based Screening Levels (RBSLs) to evaluate if BTEX concentrations in soil have the potential to impact groundwater, it was determined that soil BTEX concentrations do not have the potential to impact groundwater at all soil boring locations. Soil analytical results from SB02, SB03 and SB04 exhibited concentrations of benzene, toluene, ethylbenzene, and total xylenes above laboratory method detection limits, but below the CDLE-OPS RBSLs. The remaining soil samples did not exhibit BTEX concentrations above the laboratory method detection limits.

Soil analytical results indicate that the TVH-GRO concentration in soil exceeded the COGCC Sensitive Area Standard of 1,000 mg/kg at soil boring location SB02 with a concentration of



1,090 mg/kg. Concentrations of TVH-GRO were not detected above the laboratory method detection limit or COGCC Sensitive Area Standard in the remaining soil borings.

The soil analytical results are summarized in Table 1. Benzene and TVH-GRO concentrations in soil are illustrated on Figure 3. Laboratory analytical reports are included as Attachment 2.

### **Temporary Groundwater Monitoring Well Installation**

Each direct push soil boring was converted into a temporary groundwater monitoring well. The wells were constructed of 1-inch diameter polyvinyl chloride (PVC) casing extending from the surface stickups to depths ranging between 5.5 feet and 7 feet bgs. The lower 5 feet of each temporary well consisted of 0.010-inch factory slotted PVC well screen. Silica sand (size 10x20) was placed from the bottom of each well to approximately 1 foot above the well screen to act as filter pack for the temporary groundwater wells. Bentonite chips were placed from the top of the silica sand to the ground surface and hydrated at each boring to provide a seal against surface contamination and precipitation run-off.

### **Groundwater Sampling**

Groundwater samples were collected from temporary monitoring well locations SB01 through SB07 on September 26, 2008. Each monitoring well was developed by purging approximately 10 casing volumes using a peristaltic pump. Once the well had been purged, a groundwater sample was collected.

Groundwater samples were collected in three laboratory-prepared 40-milliliter vials. The groundwater samples were placed on ice and delivered with a completed COC form to Origins. The groundwater samples were submitted for BTEX analysis by EPA Method 8260B.

### **Groundwater Analytical Results**

The Colorado Department of Public Health and Environment (CDPHE) has established Colorado Groundwater Quality Standards (CGWQS) for BTEX of 5 micrograms per liter ( $\mu\text{g/L}$ ), 1,000  $\mu\text{g/L}$ , 700  $\mu\text{g/L}$ , and 1,400  $\mu\text{g/L}$ , respectively.

Groundwater analytical results from temporary monitoring wells SB02 and SB04 indicate that benzene and total xylenes concentrations exceed the CGWQS. Analytical results from monitoring well SB02 exhibit benzene and total xylenes concentrations of 1,640  $\mu\text{g/L}$  and 5,344  $\mu\text{g/L}$ , respectively. Analytical results from monitoring well SB04 exhibit benzene and total xylenes concentrations of 272  $\mu\text{g/L}$  and 2,747  $\mu\text{g/L}$ , respectively. Toluene and ethylbenzene were detected in monitoring wells SB02 and SB04 at concentrations above the laboratory method detection limits and below the CGWQS. Groundwater collected in temporary monitoring wells SB03 and SB07 also exhibited BTEX concentrations above the laboratory method detection limits but below the CGWQS. BTEX concentrations were below laboratory method detection limits and the CGWQS for all remaining samples.



Groundwater analytical results are summarized in Table 2. Benzene concentrations in groundwater are illustrated on Figure 4. Laboratory analytical reports are included as Attachment 2.

### Summary and Conclusions

A total of seven soil borings (SB01 through SB07) were advanced at the Site. Hydrocarbon-stained soils are present in two soil borings ranging from approximately 5 to 12 feet bgs at SB02 to approximately 15 to 17 feet bgs in SB03.

Soil analytical results indicate that BTEX concentrations, when compared to CDLE-OPS RBSLs, do not show potential to impact groundwater. Soil analytical results from soil boring SB02 exhibit a TVH-GRO concentration above the COGCC Sensitive Area Standard; all remaining samples are in compliance with the COGCC Sensitive Area Standard.

Groundwater analytical results indicate that benzene and total xylenes concentrations exceed the CGWQS in the groundwater samples collected from temporary monitoring wells SB02 and SB04. Historical groundwater samples collected by ATC Associates indicate benzene concentrations above the CGWQS in temporary monitoring wells SB-2 and SB-3, at 599 mg/L and 68.1 mg/L, respectively. Additional assessment work will be conducted in areas northeast and southwest of the identified groundwater impacts in order to delineate impact in those areas. An estimation of the extent of impact is presented on Figure 3 as a 5.0 µg/L benzene isoconcentration line.

Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.

Brian Dodek, P.G.  
Project Manager

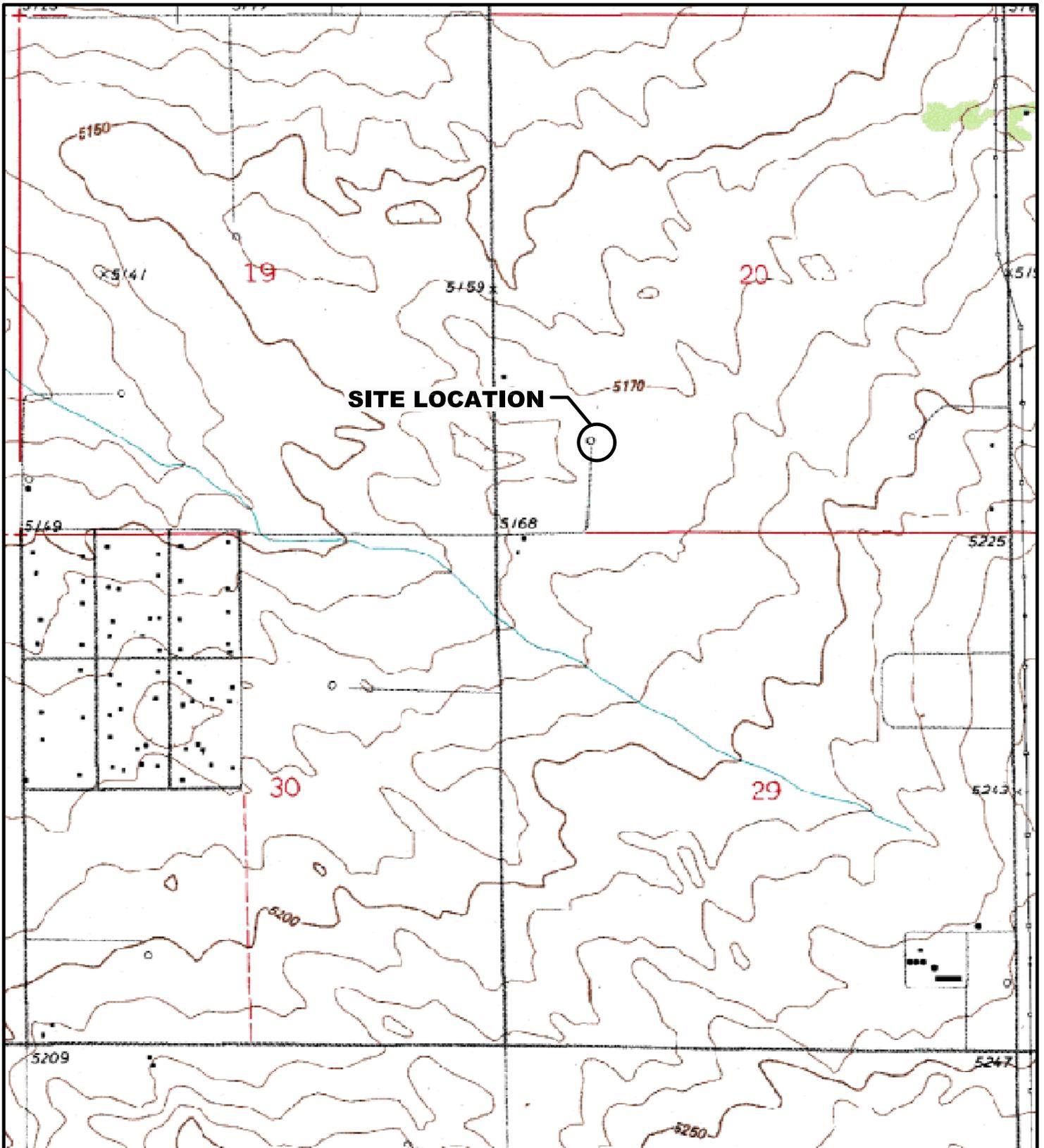
Steve Kahn, P.E.  
Senior Engineer

Attachments (2):

- Soil Boring Logs
- Laboratory Analytical Reports

## FIGURES





**LEGEND**

○ SITE LOCATION

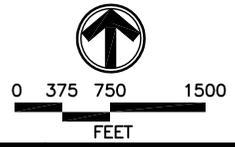
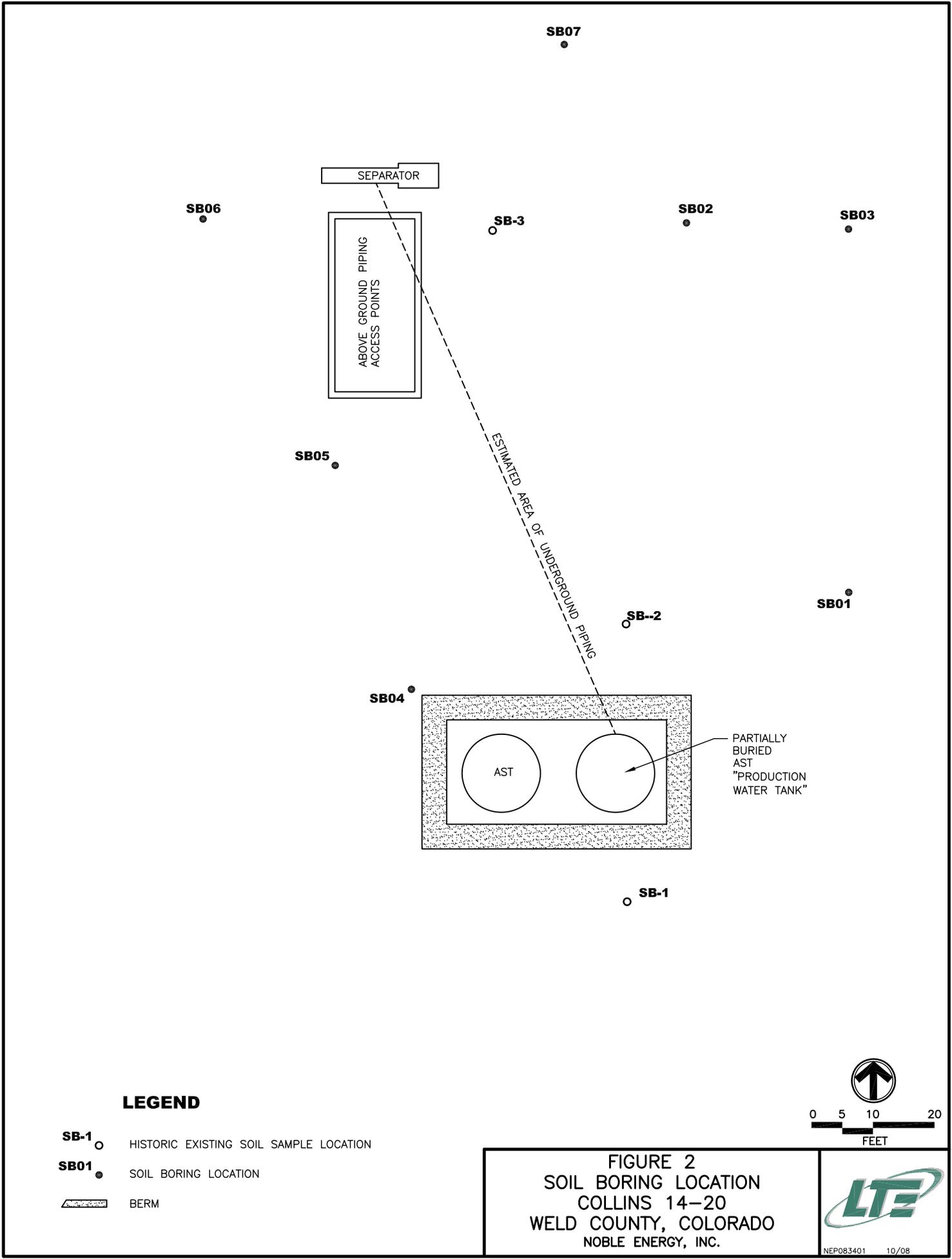


FIGURE 1  
 SITE LOCATION MAP  
 COLLINS 14-20  
 WELD COUNTY, COLORADO  
 NOBLE ENERGY, INC.

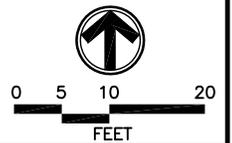
SOURCE: TOPOZONE.COM  
 USGS 7.5' QUADRANGLE  
 (NAD27)





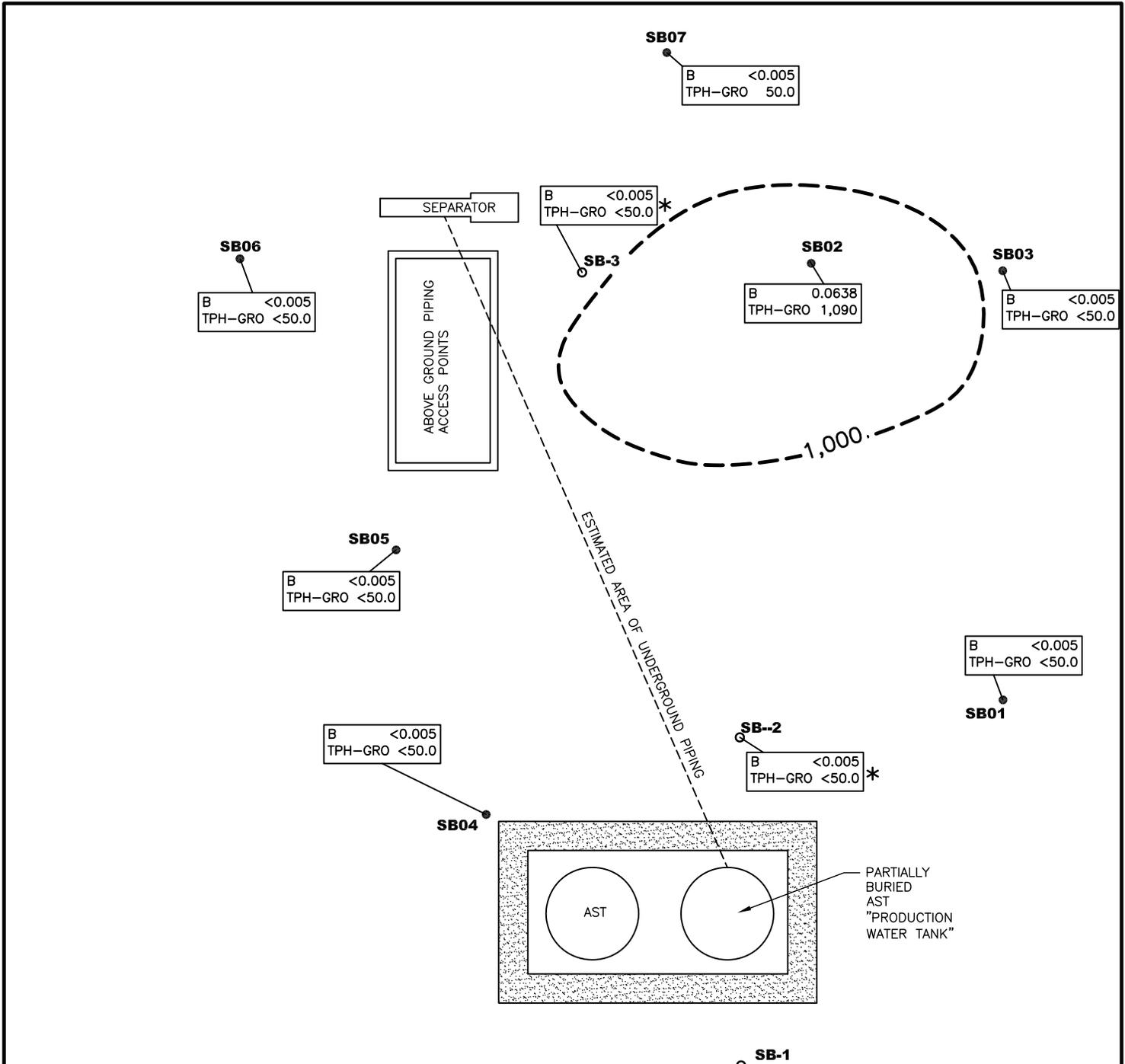
**LEGEND**

- SB-1 ○ HISTORIC EXISTING SOIL SAMPLE LOCATION
- SB01 ● SOIL BORING LOCATION
-  BERM



**FIGURE 2**  
**SOIL BORING LOCATION**  
**COLLINS 14-20**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**





**LEGEND**

**SB-1** ○ HISTORIC SOIL SAMPLE LOCATION

**SB01** ● SOIL BORING LOCATION

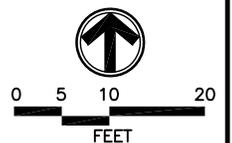
BERM

AST ABOVEGROUND STORAGE TANK

\* DATA FROM ATC ASSOCIATES (8/19/08)  
ALL OTHER SAMPLES COLLECTED 9/25/08

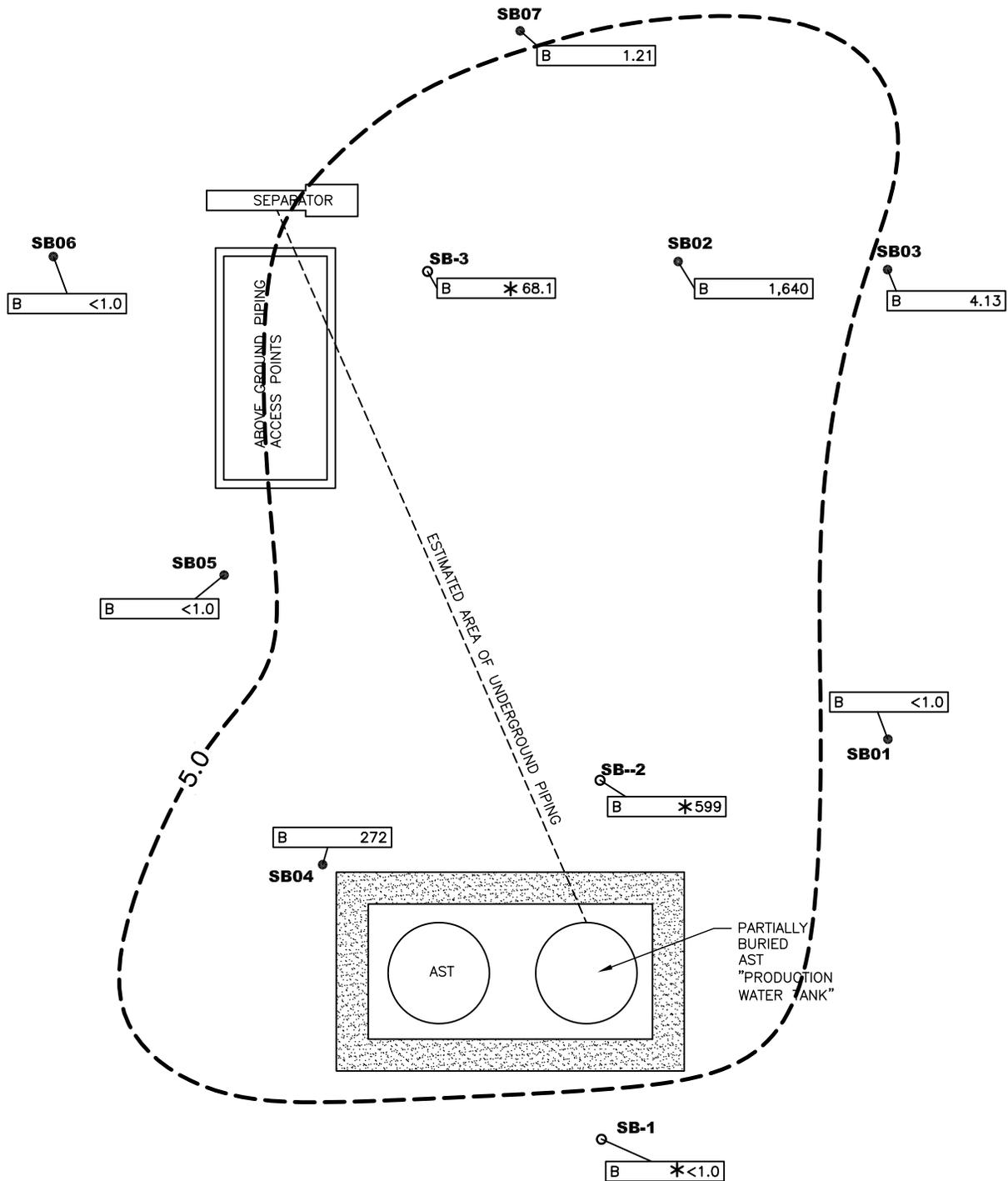
B BENZENE  
TPH-GRO TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE ORGANICS  
ANALYTICAL RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

-1,000- APPROXIMATE 1,000 mg/kg (MILLIGRAMS PER KILOGRAM) TVH-GRO CONTOUR



**FIGURE 3**  
**SOIL ANALYTICAL RESULTS**  
**COLLINS 14-20**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



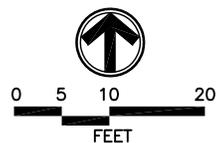


**LEGEND**

- SB-1 ○ HISTORIC SOIL SAMPLE LOCATION
- SB01 ● SOIL BORING LOCATION
-  BERM
- AST ABOVEGROUND STORAGE TANK
- \* DATA FROM ATC ASSOCIATES (8/19/08)  
ALL OTHER SAMPLES COLLECTED 9/26/08

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

— 5.0 — APPROXIMATE 5.0 µg/L (MICROGRAMS PER LITER) BENZENE CONTOUR



**FIGURE 4**  
**BENZENE IN GROUNDWATER**  
**COLLINS 14-20**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



## **TABLES**



**TABLE 1**

**SOIL ANALYTICAL DATA  
COLLINS 14-20  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

| <b>Soil Boring ID</b>                 | <b>Date</b> | <b>Benzene<br/>(mg/kg)</b> | <b>Toluene<br/>(mg/kg)</b> | <b>Ethylbenzene<br/>(mg/kg)</b> | <b>Total Xylenes<br/>(mg/kg)</b> | <b>TVH-GRO<br/>(mg/kg)</b> |
|---------------------------------------|-------------|----------------------------|----------------------------|---------------------------------|----------------------------------|----------------------------|
| SB01                                  | 9/25/2008   | <0.005                     | <0.005                     | <0.005                          | <0.015                           | <50.0                      |
| SB02                                  | 9/25/2008   | 0.0638                     | 0.508                      | 0.631                           | 4.330                            | <b>1,090</b>               |
| SB03                                  | 9/25/2008   | <0.005                     | <0.005                     | 0.00836                         | 0.1074                           | <50.0                      |
| SB04                                  | 9/25/2008   | <0.005                     | <0.005                     | <0.005                          | 0.02384                          | <50.0                      |
| SB05                                  | 9/25/2008   | <0.005                     | <0.005                     | <0.005                          | <0.015                           | <50.0                      |
| SB06                                  | 9/25/2008   | <0.005                     | <0.005                     | <0.005                          | <0.015                           | <50.0                      |
| SB07                                  | 9/25/2008   | <0.005                     | <0.005                     | <0.005                          | <0.015                           | <50.0                      |
| <b>CDLE-OPS RBSLs</b>                 |             | <b>0.26</b>                | <b>140</b>                 | <b>190</b>                      | <b>1,900</b>                     |                            |
| <b>COGCC Sensitive Area Standard*</b> |             |                            |                            |                                 |                                  | <b>1,000</b>               |

**NOTES:**

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

Total volatile hydrocarbons-gasoline range organics (TVH-GRO) analyzed by EPA modified Method 8015 M  
mg/kg - milligrams per kilogram

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

CDLE-OPS RBSLs - Colorado Department of Labor and Employment, Division of Oil and Public Safety  
Risk-Based Screening Levels

COGCC - Colorado Oil and Gas Conservation Commission

\*Applies to contaminated subsurface soil >2 feet below ground surface (bgs)  
and where the distance to groundwater is < 20 feet bgs



TABLE 2

GROUNDWATER ANALYTICAL DATA  
 COLLINS 14-20  
 WELD COUNTY, COLORADO  
 NOBLE ENERGY, INC.

| Well ID      | Date      | Depth to Water<br>(feet btoc) | Benzene<br>(ug/L) | Toluene<br>(ug/L) | Ethylbenzene<br>(ug/L) | Total Xylenes<br>(ug/L) |
|--------------|-----------|-------------------------------|-------------------|-------------------|------------------------|-------------------------|
| SB01         | 9/26/2008 | 19.75                         | <1.0              | <1.0              | <1.0                   | <3.0                    |
| SB02         | 9/26/2008 | 19.03                         | <b>1,640</b>      | 47.4              | 652                    | <b>5,344</b>            |
| SB03         | 9/26/2008 | 19.20                         | 4.13              | <1.0              | 3.34                   | 67.33                   |
| SB04         | 9/26/2008 | 19.86                         | <b>272</b>        | 33.0              | 294                    | <b>2,747</b>            |
| SB05         | 9/26/2008 | 21.83                         | <1.0              | <1.0              | <1.0                   | <3.0                    |
| SB06         | 9/26/2008 | 20.84                         | <1.0              | <1.0              | <1.0                   | <3.0                    |
| SB07         | 9/26/2008 | 20.93                         | 1.21              | <1.0              | <1.0                   | 21.60                   |
| <b>CGWQS</b> |           |                               | <b>5.0</b>        | <b>1,000</b>      | <b>700</b>             | <b>1,400</b>            |

NOTES:

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

btoc - below top of casing

ug/L - micrograms per liter

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

CGWQS - Colorado Groundwater Quality Standards

**BOLD** - indicates result exceeds CGWQS



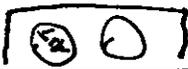
**ATTACHMENT 1**  
**BOREHOLE LITHOLOGIC LOGS**



Well Location Sketch:



S01



Compliance · Engineering · Remediation  
 LT Environmental, Inc.  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

|  |                                |
|--|--------------------------------|
| Boring/Well Number:<br>S01                 | Project:<br>Collins 14-20      |
| Date:<br>9/25/2008                         | Project Number:<br>NEP0834.01  |
| Logged By:<br>Chris Purcell                | Drilled By:<br>Dakota Drilling |
| Drilling Method:<br>Direct Push / SS Auger | Sampling Method:<br>Continuous |
| Gravel Pack:<br>CSSI 10x20                 | Seal:<br>Bentonite Chips       |
| Casing Type:<br>Sch 40 PVC                 | Diameter:<br>1"                |
| Screen Type:<br>Sch 40 PVC                 | Slot:<br>0.01                  |
|  | Length:<br>10'                 |
|  | Hole Diameter:<br>2" / 4"      |
|  | Depth to Liquid:<br>NA         |
|  | Total Depth:<br>25'            |
|  | Depth to Water:<br>~20         |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run Recovery | Soil/Rock Type | Lithology/Remarks  | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|---------------------|----------------|--|-------------------------|
|                        |                  |             |          |          | 0                |                     |                |  |                         |
|                        |                  |             |          |          | 2                |                     | SP             | Sand (F <sub>5</sub> ); silt (>50% x 25%)<br>Drown well sorted loose |                         |
|                        | dry              | 0           | NO       |          | 4                |                     | SP             | SAA (same as above)  |                         |
|                        |                  |             |          |          | 6                |                     | CL             | Clay; grayish tan moderate plasticity                                |                         |
|                        | dry              | 0           | NO       |          | 8                |                     | SP             | Sand (F <sub>5</sub> ); well sorted clay lenses Brown                |                         |
|                        |                  |             |          |          | 10               |                     |                |  |                         |
|                        |                  |             |          |          | 12               |                     |                | refusal @ 11'  |                         |
|                        |                  |             |          |          | 14               |                     |                |  |                         |
| 42<br>50/5             | moist            | 0           | NO       | X        | 16               |                     | cls            | weathered sandstone platy Dark brown                                 |                         |
|                        |                  |             |          | 1138     | 18               |                     |                |  |                         |
|                        |                  |             |          |          | 20               |                     | SS             | sand (mg); well sort Dark brown weathered sandstone                  |                         |
| 50/4                   | wet              | 0           | NO       |          | 22               |                     |                |  |                         |
|                        |                  |             |          |          | 24               |                     |                |  |                         |
|                        |                  |             |          |          | 26               |                     |                |  |                         |
|                        |                  |             |          |          | 28               |                     |                |  |                         |
|                        |                  |             |          |          | 30               |                     |                |  |                         |
|                        |                  |             |          |          | 32               |                     |                |  |                         |
|                        |                  |             |          |          | 34               |                     |                |  |                         |
|                        |                  |             |          |          | 36               |                     |                |  |                         |
|                        |                  |             |          |          | 38               |                     |                |  |                         |
|                        |                  |             |          |          | 40               |                     |                |  |                         |

Well Location Sketch:



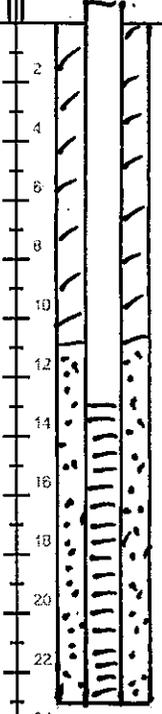
**LTE** Compliance - Engineering - Remediation  
 LT Environmental, Inc.  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

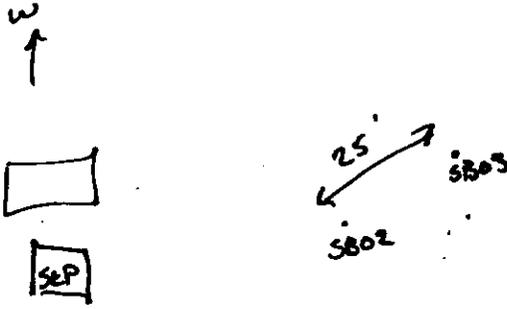
|                                    |                                       |
|------------------------------------|---------------------------------------|
| Boring/Well Number:<br><b>5302</b> | Project:<br><b>Collins 14-20</b>      |
| Date:<br><b>9/25/2008</b>          | Project Number:<br><b>NEP0834.01</b>  |
| Logged By:<br><b>Chris Purcell</b> | Drilled By:<br><b>Dakota Drilling</b> |
| Elevation:                         | Detector:<br><b>MiniRAE 2000</b>      |
| Gravel Pack:<br><b>CSSI 10x20</b>  | Seal:<br><b>Bentonite Chips</b>       |
| Casing Type:<br><b>Sch 40 PVC</b>  | Diameter:<br><b>1"</b>                |
| Screen Type:<br><b>Sch 40 PVC</b>  | Slot:<br><b>0.01</b>                  |
|                                    | Length:<br><b>10</b>                  |
|                                    | Hole Diameter:<br><b>2 1/4"</b>       |
|                                    | Depth to Liquid:<br><b>ND</b>         |
|                                    | Total Depth:<br><b>12'</b>            |
|                                    | Depth to Water:<br><b>~18'</b>        |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining   | Sample #    | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks                            | Well Completion Diagram |
|------------------------|------------------|-------------|------------|-------------|------------------|------------|----------|----------------|--|-------------------------|
|                        |                  |             |            |             | 0                |            |          |                |  |                         |
|                        |                  |             |            |             | 2                |            |          |                |  |                         |
|                        |                  |             |            |             | 4                |            |          |                |  |                         |
| <b>3/5</b>             | <b>MOIST</b>     | <b>4902</b> | <b>YES</b> |             | 6                |            |          | <b>SB</b>      | <b>FINE SAND (BLACK) loose poorly sorted</b> |                         |
| <b>3</b>               |                  |             |            |             | 8                |            |          |                |  |                         |
| <b>3</b>               |                  |             |            |             | 10               |            |          |                |  |                         |
| <b>32</b>              | <b>DRY</b>       | <b>6196</b> | <b>YES</b> |             | 12               |            |          | <b>ClS</b>     | <b>CLAYSTONE, SLIGHT ODR, GREY RATEY</b>     |                         |
| <b>50/6</b>            |                  |             |            | <b>1200</b> | 12               |            |          |                |  |                         |
|                        |                  |             |            |             | 14               |            |          |                |  |                         |
|                        |                  |             |            |             | 16               |            |          |                |  |                         |
|                        |                  |             |            |             | 18               |            |          |                |  |                         |
|                        |                  |             |            |             | 20               |            |          |                |  |                         |
|                        |                  |             |            |             | 22               |            |          |                |  |                         |
|                        |                  |             |            |             | 24               |            |          |                |  |                         |
|                        |                  |             |            |             | 26               |            |          |                |  |                         |
|                        |                  |             |            |             | 28               |            |          |                |  |                         |
|                        |                  |             |            |             | 30               |            |          |                |  |                         |
|                        |                  |             |            |             | 32               |            |          |                |  |                         |
|                        |                  |             |            |             | 34               |            |          |                |  |                         |
|                        |                  |             |            |             | 36               |            |          |                |  |                         |
|                        |                  |             |            |             | 38               |            |          |                |  |                         |
|                        |                  |             |            |             | 40               |            |          |                |  |                         |

TOTAL DEPTH : 12'  
 REDRILLED TO 23'  
 10' SCREEN



Well Location Sketch:



**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

|  |                                    |
|--|------------------------------------|
| Boring/Well Number: <b>SB03</b>              | Project: <b>Collins 14-20</b>      |
| Date: <b>9/25/2008</b>                       | Project Number: <b>NEP0834.01</b>  |
| Logged By: <b>Chris Purcell</b>              | Drilled By: <b>Dakota Drilling</b> |
| Drilling Method: <b>Direct Push SS Auger</b> | Sampling Method: <b>Continuous</b> |

Elevation: **NA** Detector: **MiniRAE 2000**

Gravel Pack: **CSSI 10x20** Seal: **Bentonite Chips**

Grout: **WD**

Casing Type: **Sch 40 PVC** Diameter: **1"** Length: **10'**

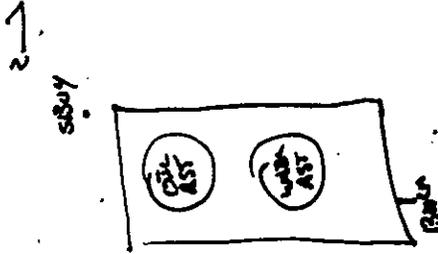
Hole Diameter: **3/4"** Depth to Liquid: **NA**

Screen Type: **Sch 40 PVC** Slot: **0.01** Diameter: **1"** Length: **5'**

Total Depth: **25'** Depth to Water: **220'**

| Penetration Resistance | Moisture Content | Vapor (ppm)  | Staining     | Sample #    | Depth (ft. bgs.) | Sample Run Recovery | Soil/Rock Type | Lithology/Remarks  | Well Completion Diagram |
|------------------------|------------------|--------------|--------------|-------------|------------------|---------------------|----------------|--|-------------------------|
|                        |                  |              |              |             | 0                |                     |                |  |                         |
|                        |                  |              |              |             | 2                |                     |                |  |                         |
|                        |                  |              |              |             | 4                |                     |                |  |                         |
|                        | <b>DRY</b>       | <b>0</b>     | <b>NO</b>    |             | 6                |                     | <b>SS</b>      | <b>WEATHERED SANDSTONE TO CLAY MODERATE PLASTICITY / Brown</b>         |                         |
|                        |                  |              |              |             | 8                |                     |                |  |                         |
|                        | <b>50/60</b>     | <b>MOIST</b> | <b>0</b>     | <b>NO</b>   | 10               |                     | <b>SS</b>      | <b>WEATHERED SANDSTONE WELL SORTED Brown</b>                           |                         |
|                        |                  |              |              |             | 12               |                     |                |  |                         |
|                        | <b>21</b>        | <b>WET</b>   | <b>Moist</b> | <b>YES</b>  | 16               |                     | <b>SS</b>      | <b>MEDIUM COARSE SAND WELL SORTED GREENISH GREY / BLACK SLIGHT ODM</b> |                         |
|                        |                  |              |              | <b>1215</b> | 18               |                     |                |  |                         |
|                        |                  |              |              |             | 20               |                     | <b>SS</b>      | <b>SAA @ 15-17'</b>  |                         |
|                        |                  |              |              |             | 22               |                     |                |  |                         |
|                        |                  |              |              |             | 24               |                     |                |  |                         |
|                        |                  |              |              |             | 26               |                     |                |  |                         |
|                        |                  |              |              |             | 28               |                     |                |  |                         |
|                        |                  |              |              |             | 30               |                     |                |  |                         |
|                        |                  |              |              |             | 32               |                     |                |  |                         |
|                        |                  |              |              |             | 34               |                     |                |  |                         |
|                        |                  |              |              |             | 36               |                     |                |  |                         |
|                        |                  |              |              |             | 38               |                     |                |  |                         |
|                        |                  |              |              |             | 40               |                     |                |  |                         |

Well Location Sketch:



Compliance - Engineering - Remediation  
 LT Environmental, Inc.  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

|   |                                |
|---|--------------------------------|
| Boring/Well Number:<br><b>SBO4</b>                | Project:<br>Collins 14-20      |
| Date:<br>9/25/2008                                | Project Number:<br>NEP0834.01  |
| Logged By:<br>Chris Purcell                       | Drilled By:<br>Dakota Drilling |
| Drilling Method:<br><del>Direct Push</del> SSAUER | Sampling Method:<br>Continuous |

Elevation: **ND** Detector: MiniRAE 2000

Gravel Pack: CSSI 10x20 Seal: Bentonite Chips Grout: **ND**

Casing Type: Sch 40 PVC Diameter: 1" Length: 10'

Screen Type: Sch 40 PVC Slot: 0.01 Diameter: 1" Length: 5'

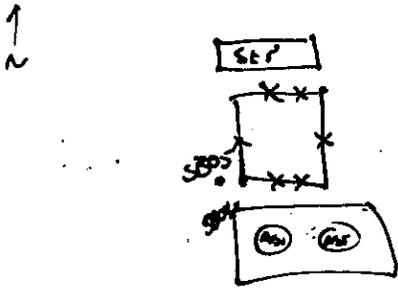
Hole Diameter: **4"** Depth to Liquid: **---**

Total Depth: **23'** Depth to Water: **~20'**

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining      | Sample #    | Depth (ft. bgs.) | Sample Run Recovery | Soil/Rock Type | Lithology/Remarks                                 | Well Completion Diagram |
|------------------------|------------------|-------------|---------------|-------------|------------------|---------------------|----------------|---|-------------------------|
|                        |                  |             |               |             | 0                |                     |                |   |                         |
|                        |                  |             |               |             | 2                |                     |                |   |                         |
|                        |                  |             |               |             | 4                |                     |                |   |                         |
| <b>5/5</b>             | <b>DRY</b>       | <b>0</b>    | <b>NO</b>     |             | 6                |                     | <b>SP</b>      | <b>FINE SAND 2' CLAY LENSE WELL SORTED BROWN</b>  |                         |
|                        |                  |             |               |             | 8                |                     |                |   |                         |
| <b>50/6</b>            | <b>DRY</b>       | <b>0</b>    | <b>NO</b>     |             | 10               |                     | <b>SS</b>      | <b>WEATHERED SANDSTONE MOLD PLASTICITY PLATEY</b> |                         |
|                        |                  |             |               |             | 12               |                     |                |   |                         |
| <b>50/6</b>            | <b>MOIST</b>     | <b>0</b>    | <b>NO</b>     |             | 16               |                     | <b>SS</b>      | <b>SAND TO SANDSTONE PEBBLES</b>                  |                         |
|                        |                  |             |               | <b>1242</b> | 18               |                     |                |   |                         |
|                        | <b>WET</b>       | <b>80.4</b> | <b>SLIGHT</b> |             | 20               |                     | <b>SS</b>      | <b>SAA. BROWN → BROWN CLAY</b>                    |                         |
|                        |                  |             |               |             | 22               |                     |                |   |                         |
|                        |                  |             |               |             | 24               |                     |                |   |                         |
|                        |                  |             |               |             | 26               |                     |                |   |                         |
|                        |                  |             |               |             | 28               |                     |                |   |                         |
|                        |                  |             |               |             | 30               |                     |                |   |                         |
|                        |                  |             |               |             | 32               |                     |                |   |                         |
|                        |                  |             |               |             | 34               |                     |                |   |                         |
|                        |                  |             |               |             | 36               |                     |                |   |                         |
|                        |                  |             |               |             | 38               |                     |                |   |                         |
|                        |                  |             |               |             | 40               |                     |                |   |                         |

TOTAL DEPTH @ 23'  
10' SCREEN

Well Location Sketch:



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 LT Environmental, Inc.  
 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

|   |                                       |
|---|---------------------------------------|
| Boring/Well Number:<br><b>SB05</b>                | Project:<br><b>Collins 14-20</b>      |
| Date:<br><b>9/25/2008</b>                         | Project Number:<br><b>NEP0834.01</b>  |
| Logged By:<br><b>Chris Purcell</b>                | Drilled By:<br><b>Dakota Drilling</b> |
| Drilling Method:<br><del>SS</del> <b>SS w/ber</b> | Sampling Method:<br><b>Continuous</b> |

Elevation: **NA** Detector: **MiniRAE 2000**

Gravel Pack: **CSSI 10x20** Seal: **Bentonite Chips** Grout: **NA**

Casing Type: **Sch 40 PVC** Diameter: **1"** Length: **10'** Hole Diameter: **4"** Depth to Liquid:

Screen Type: **Sch 40 PVC** Slot: **0.01** Diameter: **1"** Length: **5'** Total Depth: **24'** Depth to Water: **~17'**

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining  | Sample #    | Depth (ft. bgs.) | Sample Run Recovery | Soil/Rock Type  | Lithology/Remarks   | Well Completion Diagram |
|------------------------|------------------|-------------|-----------|-------------|------------------|---------------------|-----------------|---|-------------------------|
|                        |                  |             |           |             | 0                |                     |                 |   |                         |
|                        |                  |             |           |             | 2                |                     |                 |   |                         |
| <b>9</b>               | <b>dry</b>       | <b>φ</b>    | <b>NO</b> |             | 4                |                     | <b>SS / CIS</b> | <b>SAND TO CLAYSTONE (FINE SAND) WELL SORTED BROWN</b>        |                         |
| <b>SS/2</b>            | <b>dry</b>       | <b>φ</b>    | <b>NO</b> |             | 10               |                     | <b>SS</b>       | <b>SANDSTONE (LIGHT TAN &amp; BROWN) HARD HIGH PLASTICITY</b> |                         |
| <b>SS/5</b>            | <b>dry</b>       | <b>φ</b>    | <b>NO</b> | <b>1308</b> | 16               |                     | <b>SS</b>       | <b>SANDSTONE MEDIUM GRADE WELL SORTED</b>                     |                         |
|                        |                  |             |           |             | 20               |                     |                 |   |                         |
|                        |                  |             |           |             | 22               |                     |                 | <b>WATER @ 17-18'</b>   |                         |
|                        |                  |             |           |             | 24               |                     |                 | <b>TOTAL DEPTH @ 24'</b>                                      |                         |
|                        |                  |             |           |             | 26               |                     |                 | <b>10' SCREEN</b>   |                         |
|                        |                  |             |           |             | 28               |                     |                 |   |                         |
|                        |                  |             |           |             | 30               |                     |                 |   |                         |
|                        |                  |             |           |             | 32               |                     |                 |   |                         |
|                        |                  |             |           |             | 34               |                     |                 |   |                         |
|                        |                  |             |           |             | 36               |                     |                 |   |                         |
|                        |                  |             |           |             | 38               |                     |                 |   |                         |
|                        |                  |             |           |             | 40               |                     |                 |   |                         |

Well Location Sketch:

1

5806 SEP

00  
AS7's



Compliance - Engineering - Remediation

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, Colorado 80003

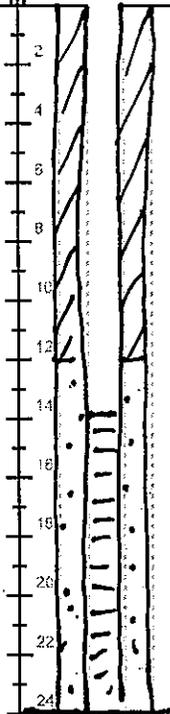
**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

|                     |                                 |                  |                 |
|---------------------|---------------------------------|------------------|-----------------|
| Boring/Well Number: | 5806                            | Project:         | Collins 14-20   |
| Date:               | 9/25/2008                       | Project Number:  | NEP0834.01      |
| Logged By:          | Chris Purcell                   | Drilled By:      | Dakota Drilling |
| Drilling Method:    | <del>Direct Push</del> SS ANGER | Sampling Method: | Continuous      |

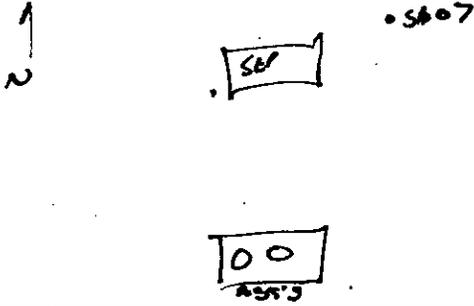
|              |            |              |       |                 |        |                |     |                  |      |
|--------------|------------|--------------|-------|-----------------|--------|----------------|-----|------------------|------|
| Elevation:   | Detector:  | MiniRAE 2000 | Seal: | Bentonite Chips | Grout: |                |     |                  |      |
| Gravel Pack: | CSSI 10x20 | Diameter:    | 1"    | Length:         | 16'    | Hole Diameter: | 4"  | Depth to Liquid: |      |
| Casing Type: | Sch 40 PVC | Diameter:    | 1"    | Length:         | 5'     | Total Depth:   | 24' | Depth to Water:  | ~20' |
| Screen Type: | Sch 40 PVC | Slot:        | 0.01  |                 |        |                |     |                  |      |

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run Recovery | Soil/Rock Type | Lithology/Remarks                                  | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|---------------------|----------------|--|-------------------------|
|                        |                  |             |          |          | 0                |                     |                |  |                         |
|                        |                  |             |          |          | 2                |                     |                |  |                         |
|                        |                  |             |          |          | 4                |                     |                |  |                         |
| 10<br>18<br>14         | DRY              | 0           | NO       |          | 6                | X                   | SP             | SAWD → FINE CLAY<br>LOW PLASTICITY<br>Brown NO ORG |                         |
|                        |                  |             |          |          | 8                |                     |                |  |                         |
| 35<br>50/6             | MOIST            | 0           | NO       |          | 10               | X                   | SS             | WEATHERED SANDSTONE<br>PLASTIC Brown NO ORG        |                         |
|                        |                  |             |          |          | 12               |                     |                |  |                         |
| 50/4                   | MOIST            | 0           | NO       | 1340     | 16               | X                   | SS             | SAA  |                         |
|                        |                  |             |          |          | 18               |                     |                |  |                         |
|                        | WED              |             | NO       |          | 20               | X                   | SS             | SANDSTONE  |                         |
|                        |                  |             |          |          | 22               |                     |                |  |                         |
|                        |                  |             |          |          | 24               |                     |                |  |                         |
|                        |                  |             |          |          | 26               |                     |                |  |                         |
|                        |                  |             |          |          | 28               |                     |                |  |                         |
|                        |                  |             |          |          | 30               |                     |                |  |                         |
|                        |                  |             |          |          | 32               |                     |                |  |                         |
|                        |                  |             |          |          | 34               |                     |                |  |                         |
|                        |                  |             |          |          | 36               |                     |                |  |                         |
|                        |                  |             |          |          | 38               |                     |                |  |                         |
|                        |                  |             |          |          | 40               |                     |                |  |                         |

TD: 24'  
10' SCREEN



Well Location Sketch:



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 4600 W. 60th Avenue  
 Arvada, Colorado 80003

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

|  |                                |
|--|--------------------------------|
| Boring/Well Number:<br><b>SB07</b>                         | Project:<br>Collins 14-20      |
| Date:<br>9/25/2008   | Project Number:<br>NEP0834.01  |
| Logged By:<br>Chris Purcell                                | Drilled By:<br>Dakota Drilling |
| Drilling Method:<br><del>Direct Push</del> <b>SS AUGER</b> | Sampling Method:<br>Continuous |

|                         |                           |
|-------------------------|---------------------------|
| Elevation:<br><b>ND</b> | Detector:<br>MiniRAE 2000 |
|-------------------------|---------------------------|

|                            |                          |                     |
|----------------------------|--------------------------|---------------------|
| Gravel Pack:<br>CSSI 10x20 | Seal:<br>Bentonite Chips | Grout:<br><b>ND</b> |
|----------------------------|--------------------------|---------------------|

|                            |                 |                |                             |                  |
|----------------------------|-----------------|----------------|-----------------------------|------------------|
| Casing Type:<br>Sch 40 PVC | Diameter:<br>1" | Length:<br>10' | Hole Diameter:<br><b>4"</b> | Depth to Liquid: |
|----------------------------|-----------------|----------------|-----------------------------|------------------|

|                            |               |                 |               |              |                                |
|----------------------------|---------------|-----------------|---------------|--------------|--------------------------------|
| Screen Type:<br>Sch 40 PVC | Slot:<br>0.01 | Diameter:<br>1" | Length:<br>5' | Total Depth: | Depth to Water:<br><b>~20'</b> |
|----------------------------|---------------|-----------------|---------------|--------------|--------------------------------|

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining  | Sample #    | Depth (ft. bgs.) | Sample Run Recovery | Soil/Rock Type | Lithology/Remarks  | Well Completion Diagram |
|------------------------|------------------|-------------|-----------|-------------|------------------|---------------------|----------------|--|-------------------------|
|                        |                  |             |           |             | 0                |                     |                |  |                         |
|                        |                  |             |           |             | 2                |                     |                |  |                         |
|                        |                  |             |           |             | 4                |                     |                |  |                         |
| <b>4</b>               | <b>DRY</b>       | <b>0</b>    | <b>ND</b> |             | 6                |                     | <b>SB</b>      | <b>SAND w/ CLAY LENSES</b><br><b>BROWN LENSE</b><br><del>NO ODR</del><br><b>NO ODR</b> |                         |
| <b>7</b>               |                  |             |           |             | 8                |                     |                |  |                         |
| <b>9</b>               |                  |             |           |             | 10               |                     |                |  |                         |
| <b>17</b>              |                  | <b>0</b>    |           |             | 12               |                     | <b>SB</b>      | <b>SAND w/ CLAY LENSES</b><br><b>LENS</b><br><b>NO ODR PLATE</b>                       |                         |
| <b>23</b>              | <b>DRY</b>       |             | <b>ND</b> |             | 14               |                     |                |  |                         |
| <b>40</b>              |                  |             |           |             | 16               |                     | <b>SS</b>      | <b>WEATHERED SANDSTONE</b>   |                         |
| <b>0/3</b>             | <b>MOIST</b>     | <b>0</b>    | <b>ND</b> | <b>1409</b> | 18               |                     |                |  |                         |
|                        |                  |             |           |             | 20               |                     |                |  |                         |
|                        |                  |             |           |             | 22               |                     |                |  |                         |
|                        |                  |             |           |             | 24               |                     |                |  |                         |
|                        |                  |             |           |             | 26               |                     |                |  |                         |
|                        |                  |             |           |             | 28               |                     |                |  |                         |
|                        |                  |             |           |             | 30               |                     |                |  |                         |
|                        |                  |             |           |             | 32               |                     |                |  |                         |
|                        |                  |             |           |             | 34               |                     |                |  |                         |
|                        |                  |             |           |             | 36               |                     |                |  |                         |
|                        |                  |             |           |             | 38               |                     |                |  |                         |
|                        |                  |             |           |             | 40               |                     |                |  |                         |

TD: 24'  
10' SCREEN

**ATTACHMENT 2**  
**LABORATORY ANALYTICAL REPORTS**





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

---

October 02, 2008

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

Brian Dodek  
Project Number: NEP0834  
Project: Collins 14-20 5A

---

Attached are the analytical results for Collins 14-20 5A received by Origins Laboratory, Inc. 9/26/2008 2:10:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager  
Noelle E Doyle

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

4640 Pecos Street | Unit C  
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303.433.1322 | Laboratory  
303.265.9645 | Fax



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

Brian Dodek  
Project Number: NEP0834  
Project: Collins 14-20 5A

### CROSS REFERENCE REPORT

| Laboratory ID | Sample ID  | Matrix | Sampled              | Date Received    |
|---------------|------------|--------|----------------------|------------------|
| SB01          | X809082-01 | Water  | 9/26/2008 12:00:00PM | 09/26/2008 14:10 |
| SB02          | X809082-02 | Water  | 9/26/2008 12:10:00PM | 09/26/2008 14:10 |
| SB03          | X809082-03 | Water  | 9/26/2008 12:20:00PM | 09/26/2008 14:10 |
| SB04          | X809082-04 | Water  | 9/26/2008 12:30:00PM | 09/26/2008 14:10 |
| SB05          | X809082-05 | Water  | 9/26/2008 12:40:00PM | 09/26/2008 14:10 |
| SB06          | X809082-06 | Water  | 9/26/2008 12:50:00PM | 09/26/2008 14:10 |
| SB07          | X809082-07 | Water  | 9/26/2008 1:00:00PM  | 09/26/2008 14:10 |

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB01**  
**X809082-01 (Water)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |    |      |      |   |         |            |            |  |
|--------------|----|------|------|---|---------|------------|------------|--|
| Benzene      | ND | 1.00 | ug/L | 1 | 8129003 | 09/29/2008 | 09/30/2008 |  |
| Toluene      | ND | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene | ND | 1.00 | "    | " | "       | "          | "          |  |
| o-Xylene     | ND | 1.00 | "    | " | "       | "          | "          |  |
| m,p-Xylene   | ND | 2.00 | "    | " | "       | "          | "          |  |

|   |               |                 |  |  |          |          |          |             |
|---|---------------|-----------------|--|--|----------|----------|----------|-------------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>98.0 %</i> | <i>70.3-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |             |
| <i>Surrogate: Toluene-d8</i>            | <i>102 %</i>  | <i>75.9-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |             |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>82.1 %</i> | <i>83-123</i>   |  |  | <i>"</i> | <i>"</i> | <i>"</i> | <i>S-GC</i> |

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Noelle E Doyle, Laboratory Manager

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 Arvada CO 80003

Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB02**  
**X809082-02 (Water)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |             |      |      |    |         |            |            |
|--------------|-------------|------|------|----|---------|------------|------------|
| Benzene      | <b>1640</b> | 50.0 | ug/L | 50 | 8129003 | 09/29/2008 | 10/01/2008 |
| Toluene      | <b>47.4</b> | 1.00 | "    | 1  | "       | "          | 09/30/2008 |
| Ethylbenzene | <b>652</b>  | 50.0 | "    | 50 | "       | "          | 10/01/2008 |
| o-Xylene     | <b>854</b>  | 50.0 | "    | "  | "       | "          | "          |
| m,p-Xylene   | <b>4490</b> | 100  | "    | "  | "       | "          | "          |

|   |               |                 |  |  |          |          |                   |
|---|---------------|-----------------|--|--|----------|----------|-------------------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>113 %</i>  | <i>70.3-123</i> |  |  | <i>"</i> | <i>"</i> | <i>09/30/2008</i> |
| <i>Surrogate: Toluene-d8</i>            | <i>89.8 %</i> | <i>75.9-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i>          |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>109 %</i>  | <i>83-123</i>   |  |  | <i>"</i> | <i>"</i> | <i>"</i>          |

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Noelle E Doyle, Laboratory Manager



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

Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB03**  
**X809082-03 (Water)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |             |      |      |   |         |            |            |
|--------------|-------------|------|------|---|---------|------------|------------|
| Benzene      | <b>4.13</b> | 1.00 | ug/L | 1 | 8129003 | 09/29/2008 | 09/30/2008 |
| Toluene      | ND          | 1.00 | "    | " | "       | "          | "          |
| Ethylbenzene | <b>3.34</b> | 1.00 | "    | " | "       | "          | "          |
| o-Xylene     | <b>1.13</b> | 1.00 | "    | " | "       | "          | "          |
| m,p-Xylene   | <b>66.2</b> | 2.00 | "    | " | "       | "          | "          |

|   |               |                 |  |  |          |          |          |
|---|---------------|-----------------|--|--|----------|----------|----------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>105 %</i>  | <i>70.3-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |
| <i>Surrogate: Toluene-d8</i>            | <i>90.7 %</i> | <i>75.9-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>97.8 %</i> | <i>83-123</i>   |  |  | <i>"</i> | <i>"</i> | <i>"</i> |

Origins Laboratory, Inc.

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

Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB04**  
**X809082-04 (Water)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |      |      |      |    |         |            |            |
|--------------|------|------|------|----|---------|------------|------------|
| Benzene      | 272  | 20.0 | ug/L | 20 | 8129003 | 09/29/2008 | 09/30/2008 |
| Toluene      | 33.0 | 1.00 | "    | 1  | "       | "          | "          |
| Ethylbenzene | 294  | 20.0 | "    | 20 | "       | "          | "          |
| o-Xylene     | 387  | 20.0 | "    | "  | "       | "          | "          |
| m,p-Xylene   | 2360 | 40.0 | "    | "  | "       | "          | 10/01/2008 |

|                                  |        |          |  |  |   |   |            |
|----------------------------------|--------|----------|--|--|---|---|------------|
| Surrogate: 1,2-Dichloroethane-d4 | 104 %  | 70.3-123 |  |  | " | " | 09/30/2008 |
| Surrogate: Toluene-d8            | 88.9 % | 75.9-123 |  |  | " | " | "          |
| Surrogate: 4-Bromofluorobenzene  | 102 %  | 83-123   |  |  | " | " | "          |

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Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB05**  
**X809082-05 (Water)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |    |      |      |   |         |            |            |  |
|--------------|----|------|------|---|---------|------------|------------|--|
| Benzene      | ND | 1.00 | ug/L | 1 | 8129003 | 09/29/2008 | 09/30/2008 |  |
| Toluene      | ND | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene | ND | 1.00 | "    | " | "       | "          | "          |  |
| o-Xylene     | ND | 1.00 | "    | " | "       | "          | "          |  |
| m,p-Xylene   | ND | 2.00 | "    | " | "       | "          | "          |  |

|   |               |                 |  |  |          |          |          |
|---|---------------|-----------------|--|--|----------|----------|----------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>102 %</i>  | <i>70.3-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |
| <i>Surrogate: Toluene-d8</i>            | <i>96.4 %</i> | <i>75.9-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>85.6 %</i> | <i>83-123</i>   |  |  | <i>"</i> | <i>"</i> | <i>"</i> |

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Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB06**  
**X809082-06 (Water)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |    |      |      |   |         |            |            |  |
|--------------|----|------|------|---|---------|------------|------------|--|
| Benzene      | ND | 1.00 | ug/L | 1 | 8129003 | 09/29/2008 | 09/30/2008 |  |
| Toluene      | ND | 1.00 | "    | " | "       | "          | "          |  |
| Ethylbenzene | ND | 1.00 | "    | " | "       | "          | "          |  |
| o-Xylene     | ND | 1.00 | "    | " | "       | "          | "          |  |
| m,p-Xylene   | ND | 2.00 | "    | " | "       | "          | "          |  |

|   |               |                 |  |  |          |          |          |  |
|---|---------------|-----------------|--|--|----------|----------|----------|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>97.8 %</i> | <i>70.3-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |  |
| <i>Surrogate: Toluene-d8</i>            | <i>99.6 %</i> | <i>75.9-123</i> |  |  | <i>"</i> | <i>"</i> | <i>"</i> |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>83.5 %</i> | <i>83-123</i>   |  |  | <i>"</i> | <i>"</i> | <i>"</i> |  |

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Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB07**  
**X809082-07 (Water)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |      |      |      |   |         |            |            |
|--------------|------|------|------|---|---------|------------|------------|
| Benzene      | 1.21 | 1.00 | ug/L | 1 | 8129003 | 09/29/2008 | 09/30/2008 |
| Toluene      | ND   | 1.00 | "    | " | "       | "          | "          |
| Ethylbenzene | ND   | 1.00 | "    | " | "       | "          | "          |
| o-Xylene     | 1.70 | 1.00 | "    | " | "       | "          | "          |
| m,p-Xylene   | 19.9 | 2.00 | "    | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 92.6 % | 70.3-123 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 95.5 % | 75.9-123 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 92.6 % | 83-123   |  |  | " | " | " |

Origins Laboratory, Inc.

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 Project: Collins 14-20 5A

**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 8I29003 – EPA 5030B**

**Blank (8I29003-BLK1)**

Prepared: 09/29/2008 Analyzed: 09/29/2008

|   |      |      |      |      |  |      |          |  |  |  |
|---|------|------|------|------|--|------|----------|--|--|--|
| Benzene                                 | ND   | 1.00 | ug/L |      |  |      |          |  |  |  |
| Toluene                                 | ND   | 1.00 | "    |      |  |      |          |  |  |  |
| Ethylbenzene                            | ND   | 1.00 | "    |      |  |      |          |  |  |  |
| o-Xylene                                | ND   | 1.00 | "    |      |  |      |          |  |  |  |
| m,p-Xylene                              | ND   | 2.00 | "    |      |  |      |          |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 61.0 |      | "    | 62.5 |  | 97.7 | 70.3-123 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 64.0 |      | "    | 62.5 |  | 102  | 75.9-123 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 52.3 |      | "    | 62.5 |  | 83.6 | 83-123   |  |  |  |

**LCS (8I29003-BS1)**

Prepared: 09/29/2008 Analyzed: 10/01/2008

|   |      |      |      |      |  |      |          |  |  |      |
|---|------|------|------|------|--|------|----------|--|--|------|
| Benzene                                 | 37.9 | 1.00 | ug/L | 50.0 |  | 75.7 | 64.2-124 |  |  |      |
| Toluene                                 | 40.9 | 1.00 | "    | 50.0 |  | 81.9 | 63.9-119 |  |  |      |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 66.1 |      | "    | 62.5 |  | 106  | 70.3-123 |  |  |      |
| <i>Surrogate: Toluene-d8</i>            | 51.0 |      | "    | 62.5 |  | 81.6 | 75.9-123 |  |  |      |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 51.6 |      | "    | 62.5 |  | 82.5 | 83-123   |  |  | S-GC |

**Matrix Spike (8I29003-MS1)**

Source: X809082-01

Prepared: 09/29/2008 Analyzed: 09/29/2008

|   |      |      |      |      |      |      |          |  |  |      |
|---|------|------|------|------|------|------|----------|--|--|------|
| Benzene                                 | 38.6 | 1.00 | ug/L | 50.0 | ND   | 77.2 | 64.2-124 |  |  |      |
| Toluene                                 | 40.3 | 1.00 | "    | 50.0 | 0.91 | 78.8 | 63.9-119 |  |  |      |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 61.0 |      | "    | 62.5 |      | 97.7 | 70.3-123 |  |  |      |
| <i>Surrogate: Toluene-d8</i>            | 64.9 |      | "    | 62.5 |      | 104  | 75.9-123 |  |  |      |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 48.7 |      | "    | 62.5 |      | 77.9 | 83-123   |  |  | S-GC |

**Matrix Spike Dup (8I29003-MSD1)**

Source: X809082-01

Prepared: 09/29/2008 Analyzed: 09/30/2008

|   |      |      |      |      |      |      |          |      |    |      |
|---|------|------|------|------|------|------|----------|------|----|------|
| Benzene                                 | 33.6 | 1.00 | ug/L | 50.0 | ND   | 67.1 | 64.2-124 | 14.0 | 25 |      |
| Toluene                                 | 36.9 | 1.00 | "    | 50.0 | 0.91 | 72.0 | 63.9-119 | 8.75 | 25 |      |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 61.0 |      | "    | 62.5 |      | 97.6 | 70.3-123 |      |    |      |
| <i>Surrogate: Toluene-d8</i>            | 63.8 |      | "    | 62.5 |      | 102  | 75.9-123 |      |    |      |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 50.9 |      | "    | 62.5 |      | 81.4 | 83-123   |      |    | S-GC |

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Noelle E Doyle, Laboratory Manager



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

Brian Dodek  
Project Number: NEP0834  
Project: Collins 14-20 5A

---

### Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

Origins Laboratory, Inc.

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---

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---

October 02, 2008

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

Brian Dodek  
Project Number: NEP0834  
Project: Collins 14-20 5A

---

Attached are the analytical results for Collins 14-20 5A received by Origins Laboratory, Inc. 9/26/2008 9:32:00AM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle".

Laboratory Manager  
Noelle E Doyle

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

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LT Environmental, Inc.  
4600 West 60th Avenue  
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Brian Dodek  
Project Number: NEP0834  
Project: Collins 14-20 5A

### CROSS REFERENCE REPORT

| Laboratory ID | Sample ID  | Matrix | Sampled              | Date Received    |
|---------------|------------|--------|----------------------|------------------|
| SB01          | X809081-01 | Soil   | 9/25/2008 11:38:00AM | 09/26/2008 09:32 |
| SB02          | X809081-02 | Soil   | 9/25/2008 12:00:00PM | 09/26/2008 09:32 |
| SB03          | X809081-03 | Soil   | 9/25/2008 12:15:00PM | 09/26/2008 09:32 |
| SB04          | X809081-04 | Soil   | 9/25/2008 12:42:00PM | 09/26/2008 09:32 |
| SB05          | X809081-05 | Soil   | 9/25/2008 1:08:00PM  | 09/26/2008 09:32 |
| SB06          | X809081-06 | Soil   | 9/25/2008 1:40:00PM  | 09/26/2008 09:32 |
| SB07          | X809081-07 | Soil   | 9/25/2008 2:09:00PM  | 09/26/2008 09:32 |

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Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB01**  
**X809081-01 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |    |      |       |   |         |            |            |  |
|--------------|----|------|-------|---|---------|------------|------------|--|
| Benzene      | ND | 5.00 | ug/kg | 1 | 8129002 | 09/29/2008 | 09/29/2008 |  |
| Toluene      | ND | 5.00 | "     | " | "       | "          | "          |  |
| Ethylbenzene | ND | 5.00 | "     | " | "       | "          | "          |  |
| o-Xylene     | ND | 5.00 | "     | " | "       | "          | "          |  |
| m,p-Xylene   | ND | 10.0 | "     | " | "       | "          | "          |  |

|   |               |                 |  |  |   |   |   |             |
|---|---------------|-----------------|--|--|---|---|---|-------------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>94.2 %</i> | <i>70.3-123</i> |  |  | " | " | " |             |
| <i>Surrogate: Toluene-d8</i>            | <i>103 %</i>  | <i>75.9-123</i> |  |  | " | " | " |             |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>82.2 %</i> | <i>83-123</i>   |  |  | " | " | " | <i>S-GC</i> |

**Gasoline Range Organics (GRO) by EPA 8015M**

|                   |    |      |       |   |         |            |            |  |
|-------------------|----|------|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 8J01001 | 10/01/2008 | 10/01/2008 |  |
|-------------------|----|------|-------|---|---------|------------|------------|--|

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Brian Dodek  
 Project Number: NEP0834  
 Project: Collins 14-20 5A

**SB02**  
**X809081-02 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |             |      |       |   |         |            |            |  |
|--------------|-------------|------|-------|---|---------|------------|------------|--|
| Benzene      | <b>63.8</b> | 5.00 | ug/kg | 1 | 8129002 | 09/29/2008 | 09/29/2008 |  |
| Toluene      | <b>508</b>  | 5.00 | "     | " | "       | "          | "          |  |
| Ethylbenzene | <b>631</b>  | 5.00 | "     | " | "       | "          | "          |  |
| o-Xylene     | <b>1300</b> | 5.00 | "     | " | "       | "          | "          |  |
| m,p-Xylene   | <b>3030</b> | 10.0 | "     | " | "       | "          | "          |  |

|   |               |                 |  |  |   |   |   |  |
|---|---------------|-----------------|--|--|---|---|---|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>102 %</i>  | <i>70.3-123</i> |  |  | " | " | " |  |
| <i>Surrogate: Toluene-d8</i>            | <i>86.2 %</i> | <i>75.9-123</i> |  |  | " | " | " |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>105 %</i>  | <i>83-123</i>   |  |  | " | " | " |  |

**Gasoline Range Organics (GRO) by EPA 8015M**

|                   |             |      |       |   |         |            |            |  |
|-------------------|-------------|------|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10) | <b>1090</b> | 50.0 | mg/kg | 1 | 8J01001 | 10/01/2008 | 10/01/2008 |  |
|-------------------|-------------|------|-------|---|---------|------------|------------|--|

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 Project: Collins 14-20 5A

**SB03**  
**X809081-03 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |             |      |       |   |         |            |            |
|--------------|-------------|------|-------|---|---------|------------|------------|
| Benzene      | ND          | 5.00 | ug/kg | 1 | 8129002 | 09/29/2008 | 09/29/2008 |
| Toluene      | ND          | 5.00 | "     | " | "       | "          | "          |
| Ethylbenzene | <b>8.36</b> | 5.00 | "     | " | "       | "          | "          |
| o-Xylene     | <b>28.0</b> | 5.00 | "     | " | "       | "          | "          |
| m,p-Xylene   | <b>79.4</b> | 10.0 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 97.5 % | 70.3-123 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 99.5 % | 75.9-123 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 93.8 % | 83-123   |  |  | " | " | " |

**Gasoline Range Organics (GRO) by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 8J01001 | 10/01/2008 | 10/01/2008 |
|-------------------|----|------|-------|---|---------|------------|------------|

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 Project: Collins 14-20 5A

**SB04**  
**X809081-04 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |             |      |       |   |         |            |            |
|--------------|-------------|------|-------|---|---------|------------|------------|
| Benzene      | ND          | 5.00 | ug/kg | 1 | 8129002 | 09/29/2008 | 09/29/2008 |
| Toluene      | ND          | 5.00 | "     | " | "       | "          | "          |
| Ethylbenzene | ND          | 5.00 | "     | " | "       | "          | "          |
| o-Xylene     | <b>6.24</b> | 5.00 | "     | " | "       | "          | "          |
| m,p-Xylene   | <b>17.6</b> | 10.0 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 92.3 % | 70.3-123 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 105 %  | 75.9-123 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 90.3 % | 83-123   |  |  | " | " | " |

**Gasoline Range Organics (GRO) by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 8J01001 | 10/01/2008 | 10/01/2008 |
|-------------------|----|------|-------|---|---------|------------|------------|

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 Project: Collins 14-20 5A

**SB05**  
**X809081-05 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |    |      |       |   |         |            |            |
|--------------|----|------|-------|---|---------|------------|------------|
| Benzene      | ND | 5.00 | ug/kg | 1 | 8129002 | 09/29/2008 | 09/29/2008 |
| Toluene      | ND | 5.00 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 5.00 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 5.00 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 10.0 | "     | " | "       | "          | "          |

|   |               |                 |  |  |   |   |   |
|---|---------------|-----------------|--|--|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>85.5 %</i> | <i>70.3-123</i> |  |  | " | " | " |
| <i>Surrogate: Toluene-d8</i>            | <i>110 %</i>  | <i>75.9-123</i> |  |  | " | " | " |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>87.1 %</i> | <i>83-123</i>   |  |  | " | " | " |

**Gasoline Range Organics (GRO) by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 8J01001 | 10/01/2008 | 10/01/2008 |
|-------------------|----|------|-------|---|---------|------------|------------|

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**SB06**  
**X809081-06 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |    |      |       |   |         |            |            |
|--------------|----|------|-------|---|---------|------------|------------|
| Benzene      | ND | 5.00 | ug/kg | 1 | 8129002 | 09/29/2008 | 09/29/2008 |
| Toluene      | ND | 5.00 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 5.00 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 5.00 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 10.0 | "     | " | "       | "          | "          |

|   |              |                 |  |  |   |   |   |
|---|--------------|-----------------|--|--|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>93.7%</i> | <i>70.3-123</i> |  |  | " | " | " |
| <i>Surrogate: Toluene-d8</i>            | <i>104%</i>  | <i>75.9-123</i> |  |  | " | " | " |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>83.5%</i> | <i>83-123</i>   |  |  | " | " | " |

**Gasoline Range Organics (GRO) by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 8J01001 | 10/01/2008 | 10/01/2008 |
|-------------------|----|------|-------|---|---------|------------|------------|

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**SB07**  
**X809081-07 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |    |      |       |   |         |            |            |  |
|--------------|----|------|-------|---|---------|------------|------------|--|
| Benzene      | ND | 5.00 | ug/kg | 1 | 8129002 | 09/29/2008 | 09/29/2008 |  |
| Toluene      | ND | 5.00 | "     | " | "       | "          | "          |  |
| Ethylbenzene | ND | 5.00 | "     | " | "       | "          | "          |  |
| o-Xylene     | ND | 5.00 | "     | " | "       | "          | "          |  |
| m,p-Xylene   | ND | 10.0 | "     | " | "       | "          | "          |  |

|   |               |                 |  |  |   |   |   |             |
|---|---------------|-----------------|--|--|---|---|---|-------------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>97.9 %</i> | <i>70.3-123</i> |  |  | " | " | " |             |
| <i>Surrogate: Toluene-d8</i>            | <i>101 %</i>  | <i>75.9-123</i> |  |  | " | " | " |             |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>79.1 %</i> | <i>83-123</i>   |  |  | " | " | " | <i>S-GC</i> |

**Gasoline Range Organics (GRO) by EPA 8015M**

|                   |    |      |       |   |         |            |            |  |
|-------------------|----|------|-------|---|---------|------------|------------|--|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 8J01001 | 10/01/2008 | 10/01/2008 |  |
|-------------------|----|------|-------|---|---------|------------|------------|--|

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

| Analyte                                     | Result | Reporting Limit | Units | Spike Level | Source Result  | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|--|------|-------------|------|-----------|-------|
| <b>Batch 8J01001 – Default Prep GC-Semi</b> |        |                 |       |             |  |      |             |      |           |       |
| <b>Blank (8J01001-BLK1)</b>                 |        |                 |       |             | Prepared: 10/01/2008 Analyzed: 10/01/2008                    |      |             |      |           |       |
| Gasoline (C6-C10)                           | ND     | 50.0            | mg/kg |             |  |      |             |      |           |       |
| <b>LCS (8J01001-BS1)</b>                    |        |                 |       |             | Prepared: 10/01/2008 Analyzed: 10/01/2008                    |      |             |      |           |       |
| Gasoline (C6-C10)                           | 187    | 50.0            | mg/kg | 200         |  | 93.7 | 65-135      |      |           |       |
| <b>Matrix Spike (8J01001-MS1)</b>           |        |                 |       |             | Source: X809081-04 Prepared: 10/01/2008 Analyzed: 10/01/2008 |      |             |      |           |       |
| Gasoline (C6-C10)                           | 232    | 50.0            | mg/kg | 200         | ND   | 116  | 65-135      |      |           |       |
| <b>Matrix Spike Dup (8J01001-MSD1)</b>      |        |                 |       |             | Source: X809081-04 Prepared: 10/01/2008 Analyzed: 10/01/2008 |      |             |      |           |       |
| Gasoline (C6-C10)                           | 244    | 50.0            | mg/kg | 200         | ND   | 122  | 65-135      | 4.98 | 25        |       |

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

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

**Batch 8I29002 – EPA 5030B**

**Blank (8I29002-BLK1)**

Prepared: 09/29/2008 Analyzed: 09/29/2008

|              |    |      |       |  |  |  |  |  |  |  |
|--------------|----|------|-------|--|--|--|--|--|--|--|
| Benzene      | ND | 5.00 | ug/kg |  |  |  |  |  |  |  |
| Toluene      | ND | 5.00 | "     |  |  |  |  |  |  |  |
| Ethylbenzene | ND | 5.00 | "     |  |  |  |  |  |  |  |
| o-Xylene     | ND | 5.00 | "     |  |  |  |  |  |  |  |
| m,p-Xylene   | ND | 10.0 | "     |  |  |  |  |  |  |  |

|                                  |     |  |   |     |  |      |          |  |  |  |
|----------------------------------|-----|--|---|-----|--|------|----------|--|--|--|
| Surrogate: 1,2-Dichloroethane-d4 | 248 |  | " | 250 |  | 99.0 | 70.3-123 |  |  |  |
| Surrogate: Toluene-d8            | 242 |  | " | 250 |  | 96.9 | 75.9-123 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 210 |  | " | 250 |  | 83.9 | 83-123   |  |  |  |

**LCS (8I29002-BS1)**

Prepared: 09/29/2008 Analyzed: 09/29/2008

|                                  |     |      |       |     |  |      |          |  |  |  |
|----------------------------------|-----|------|-------|-----|--|------|----------|--|--|--|
| Benzene                          | 177 | 5.00 | ug/kg | 200 |  | 88.6 | 64.2-124 |  |  |  |
| Toluene                          | 197 | 5.00 | "     | 200 |  | 98.3 | 63.9-119 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 258 |      | "     | 250 |  | 103  | 70.3-123 |  |  |  |
| Surrogate: Toluene-d8            | 235 |      | "     | 250 |  | 93.9 | 75.9-123 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 221 |      | "     | 250 |  | 88.2 | 83-123   |  |  |  |

**Matrix Spike (8I29002-MS1)**

Source: X809081-03

Prepared: 09/29/2008 Analyzed: 09/29/2008

|                                  |     |      |       |     |      |      |          |  |  |  |
|----------------------------------|-----|------|-------|-----|------|------|----------|--|--|--|
| Benzene                          | 173 | 5.00 | ug/kg | 200 | ND   | 86.6 | 64.2-124 |  |  |  |
| Toluene                          | 201 | 5.00 | "     | 200 | 4.40 | 98.3 | 63.9-119 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 260 |      | "     | 250 |      | 104  | 70.3-123 |  |  |  |
| Surrogate: Toluene-d8            | 248 |      | "     | 250 |      | 99.1 | 75.9-123 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 212 |      | "     | 250 |      | 85.0 | 83-123   |  |  |  |

**Matrix Spike Dup (8I29002-MSD1)**

Source: X809081-03

Prepared: 09/29/2008 Analyzed: 09/29/2008

|                                  |     |      |       |     |      |      |          |      |    |  |
|----------------------------------|-----|------|-------|-----|------|------|----------|------|----|--|
| Benzene                          | 184 | 5.00 | ug/kg | 200 | ND   | 91.8 | 64.2-124 | 5.87 | 25 |  |
| Toluene                          | 215 | 5.00 | "     | 200 | 4.40 | 106  | 63.9-119 | 6.95 | 25 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 252 |      | "     | 250 |      | 101  | 70.3-123 |      |    |  |
| Surrogate: Toluene-d8            | 252 |      | "     | 250 |      | 101  | 75.9-123 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 212 |      | "     | 250 |      | 84.9 | 83-123   |      |    |  |

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### Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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