

GROUNDWATER MONITORING REPORT MAY 2010

COLLINS 14-20 TANK BATTERY

On March 3, 2010 and April 14, 2010, LT Environmental, Inc. (LTE) conducted groundwater sampling on behalf of Noble Energy, Inc. (Noble), at the Collins 14-20 Tank Battery (Site). Based upon persistent elevated levels of benzene observed during March 2010 sampling, a groundwater polishing amendment was applied at the Site. Following this recent work, the April 2010 sampling event was conducted and constitutes the first post remediation performance monitoring event at the Site. Site history, assessment, and prior remediation activities have been described in preceding reports. A Site Map is presented as Figure 1.

Following March 2010 groundwater sampling, Noble contractors exposed a 20 feet by 20 feet area around monitoring well SB14 to 2 feet below groundwater and applied 200 pounds of a groundwater amendment. The groundwater amendment consists of activated carbon and electron acceptors designed to promote biodegradation of petroleum hydrocarbons. Monitoring well SB14 was destroyed during March 2010 remediation activities and was replaced March 31, 2010 as SB14-R. The SB14-R well log is attached as Appendix A. Following remediation work, the Site was sampled again on April 14, 2010 to evaluate the effectiveness of the remediation program and begin a new cycle of quarterly sampling.

Groundwater level measurements, which ranged from 18.88 feet below top of casing (btoc) in SB14 to 20.84 feet btoc in SB08 during the March sampling event and 19.10 feet btoc in SB12 to 20.95 feet btoc in SB08 in April, are summarized in Table 1. Depth to groundwater was used to calculate well-specific purge volumes. Following purging, samples were collected and submitted to Origins Laboratory, Inc. of Denver, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8260B.

Analytical results from the monitoring wells sampled during the March sampling event (Table 1), indicate BTEX concentrations in all wells, except SB14, are in compliance with Colorado Department of Public Health and Environment Water Quality Control Commission Regulation 41 (WQCC Reg 41). Monitoring well SB14 exhibited a benzene concentration of 14.5 micrograms per liter ($\mu\text{g/L}$) and a total xylenes concentration of 2,540 $\mu\text{g/L}$. WQCC Reg 41 concentration limits for benzene and total xylenes are 5.0 $\mu\text{g/L}$ and 1,400 $\mu\text{g/L}$, respectively. Analytical results from the April sampling event indicate remediation work was successful, and all wells are in compliance with WQCC Reg 41.

LTE will continue to conduct quarterly groundwater monitoring events with the goal of observing four consecutive quarters of analytical results in compliance with applicable regulatory standards. The next quarterly groundwater sampling event is scheduled for July 2010.

TABLE

TABLE 1

**GROUNDWATER ANALYTICAL DATA
COLLINS 14-20 TANK BATTERY
ADAMS COUNTY, COLORADO
NOBLE ENERGY, INC.**

| MONITORING WELL | DATE | DEPTH TO WATER (feet btoc) | BENZENE (ug/L) | TOLUENE (ug/L) | ETHYLBENZENE (ug/L) | TOTAL XYLENES (ug/L) |
|--------------------------|------------|----------------------------|----------------|----------------|---------------------|----------------------|
| SB08 | 10/29/2008 | 22.56 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 2/17/2009 | 22.49 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 2/27/2009 | 22.71 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 7/1/2009 | 22.63 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 9/21/2009 | 21.03 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 12/8/2009 | 19.52 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 3/3/2010 | 20.84 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 4/14/2010 | 20.95 | <1.0 | <1.0 | <1.0 | <1.0 |
| SB09 | 11/5/2008 | 19.65 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 2/17/2009 | 21.95 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 2/27/2009 | 22.04 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 7/1/2009 | 22.11 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 9/21/2009 | 20.05 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 12/8/2009 | 19.89 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 3/3/2010 | 19.27 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 4/14/2010 | 20.55 | <1.0 | <1.0 | <1.0 | <1.0 |
| SB11 | 2/17/2009 | 20.70 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 2/27/2009 | 21.07 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 7/1/2009 | 20.98 | 1.36 | <1.0 | <1.0 | <3.0 |
| | 9/21/2009 | 19.70 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 12/8/2009 | 18.79 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 3/3/2010 | 19.11 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 4/14/2010 | 19.35 | <1.0 | <1.0 | <1.0 | <1.0 |
| SB12 | 2/17/2009 | 20.45 | <1.0 | <1.0 | 1.32 | <3.0 |
| | 2/27/2009 | 20.78 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 7/1/2009 | 20.70 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 9/21/2009 | 19.85 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 12/8/2009 | 18.59 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 3/3/2010 | 18.94 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 4/14/2010 | 19.10 | <1.0 | <1.0 | <1.0 | <1.0 |
| SB13 | 2/27/2009 | 21.27 | 2.18 | 16.3 | 182 | 1,037 |
| | 7/1/2009 | 21.31 | 14.2 | 66.4 | 218 | 1,517 |
| | 9/21/2009 | 19.34 | 1.92 | 7.67 | <1.0 | 521 |
| | 12/8/2009 | 19.18 | <1.0 | 15.0 | 37.8 | 384.0 |
| | 3/3/2010 | 19.46 | <1.0 | 12.7 | 86.1 | 700 |
| | 4/14/2010 | 19.65 | <1.0 | 11.9 | 37.0 | 280 |
| SB14 | 2/27/2009 | 19.71 | 17.9 | 486 | 240 | 2,335 |
| | 7/1/2009 | 20.77 | 2.5 | <1.0 | 4.59 | 74.8 |
| | 9/21/2009 | 19.68 | <1.0 | <1.0 | 1.46 | 3.18 |
| | 12/8/2009 | 18.61 | 14.3 | 388 | 298 | 3,107 |
| | 3/3/2010 | 18.88 | 14.5 | 149 | 247 | 2,540 |
| SB14-R | 4/14/2010 | 19.55 | <1.0 | <1.0 | <1.0 | <1.0 |
| CDPHE WQCC Reg 41 | | | 5.0 | 560 | 700 | 1,400 |

NOTES:

btoc - below top of casing

ug/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

Bold - indicates concentration exceeds CDPHE WQCC Reg 41

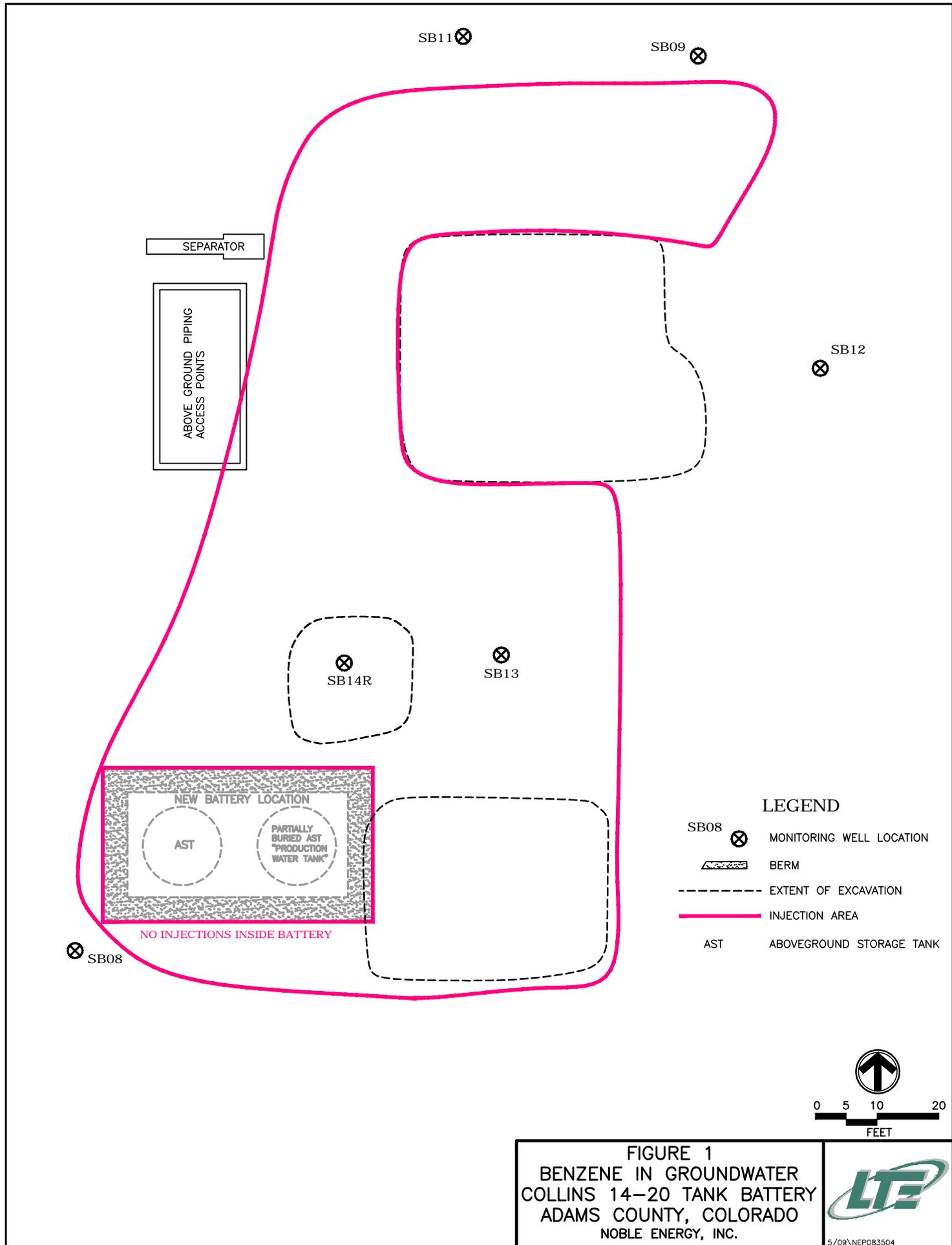
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment - Water Quality Control

Commission Regulation 41 covering Basic Standards for Groundwater



FIGURE



APPENDIX A
ANALYTICAL REPORTS

5/20/2010

LT Environmental, Inc.

Brian Dodek

4600 West 60th Avenue

Arvada

CO

80003

Project Name- Noble - Collins 14-20

Project Number- NEP0835.05

Attached are your analytical results for Noble - Collins 14-20 received by Origins Laboratory, Inc. March 3, 2010 3:00 pm. This project is associated with Origins project number X003031-01.

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

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

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



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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled | Date Received |
|-----------|---------------|--------|---------------------|------------------|
| SB08 | X003031-01 | Water | 3/3/2010 10:25:00AM | 03/03/2010 15:00 |
| SB09 | X003031-02 | Water | 3/3/2010 11:30:00AM | 03/03/2010 15:00 |
| SB11 | X003031-03 | Water | 3/3/2010 11:50:00AM | 03/03/2010 15:00 |
| SB12 | X003031-04 | Water | 3/3/2010 11:05:00AM | 03/03/2010 15:00 |
| SB13 | X003031-05 | Water | 3/3/2010 10:55:00AM | 03/03/2010 15:00 |
| SB14 | X003031-06 | Water | 3/3/2010 10:40:00AM | 03/03/2010 15:00 |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB08

3/3/2010 10:25:00AM

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

Origins Laboratory, Inc.
X003031-01 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | OC04006 | 03/04/2010 | 03/05/2010 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| Xylenes, total | ND | 0.00300 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 94.2 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 99.2 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 109 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB09

3/3/2010 11:30:00AM

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

Origins Laboratory, Inc.
X003031-02 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | OC04006 | 03/04/2010 | 03/05/2010 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| Xylenes, total | ND | 0.00300 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 91.8 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 100 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 112 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB11

3/3/2010 11:50:00AM

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

Origins Laboratory, Inc.
X003031-03 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | OC04006 | 03/04/2010 | 03/05/2010 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| Xylenes, total | ND | 0.00300 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 92.6 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 97.7 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 109 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB12

3/3/2010 11:05:00AM

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

Origins Laboratory, Inc.
X003031-04 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | OC04006 | 03/04/2010 | 03/05/2010 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| Xylenes, total | ND | 0.00300 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 92.0 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 95.3 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 108 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB13

3/3/2010 10:55:00AM

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

Origins Laboratory, Inc.
X003031-05 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|--------|---------|------|----|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | OC04006 | 03/04/2010 | 03/05/2010 | |
| Toluene | 0.0127 | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | 0.0861 | 0.0100 | " | 10 | " | " | 03/08/2010 | |
| Xylenes, total | 0.700 | 0.0300 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|------------|--|
| Surrogate: 1,2-Dichloroethane-d4 | 94.8 % | 73.5-130 | | | " | " | 03/05/2010 | |
| Surrogate: Toluene-d8 | 98.1 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 105 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB14

3/3/2010 10:40:00AM

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

Origins Laboratory, Inc.
X003031-06 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|--------|---------|------|----|---------|------------|------------|--|
| Benzene | 0.0145 | 0.00100 | mg/L | 1 | OC04006 | 03/04/2010 | 03/05/2010 | |
| Toluene | 0.149 | 0.0100 | " | 10 | " | " | 03/05/2010 | |
| Ethylbenzene | 0.247 | 0.0100 | " | " | " | " | " | |
| Xylenes, total | 2.54 | 0.0300 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 91.4 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 106 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 104 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
 Project Number: NEP0835.05
 Project: Noble - Collins 14-20

**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 OC04006 - EPA 5030B

Blank (OC04006-BLK1)

Prepared: 03/04/2010 Analyzed: 03/04/2010

| | | | | | | | | | | |
|--------------|----|-------|------|--|--|--|--|--|--|--|
| Benzene | ND | 0.001 | mg/L | | | | | | | |
| Toluene | ND | 0.001 | " | | | | | | | |
| Ethylbenzene | ND | 0.001 | " | | | | | | | |
| o-Xylene | ND | 0.001 | " | | | | | | | |
| m,p-Xylene | ND | 0.002 | " | | | | | | | |

| | | | | | | | | | | |
|---|------|--|------|------|--|------|----------|--|--|--|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 58.5 | | ug/L | 62.5 | | 93.6 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 68.7 | | " | 62.5 | | 110 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 69.7 | | " | 62.5 | | 111 | 81.5-117 | | | |

LCS (OC04006-BS1)

Prepared: 03/04/2010 Analyzed: 03/04/2010

| | | | | | | | | | | |
|---|------|-------|------|--------|--|------|----------|--|--|--|
| Benzene | 0.05 | 0.001 | mg/L | 0.0500 | | 97.8 | 77.3-128 | | | |
| Toluene | 0.05 | 0.001 | " | 0.0500 | | 97.6 | 81.7-118 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 55.6 | | ug/L | 62.5 | | 88.9 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 68.8 | | " | 62.5 | | 110 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 70.0 | | " | 62.5 | | 112 | 81.5-117 | | | |

Matrix Spike (OC04006-MS1)

Source: X003006-04

Prepared: 03/04/2010 Analyzed: 03/04/2010

| | | | | | | | | | | |
|---|------|-------|------|--------|----|------|----------|--|--|--|
| Benzene | 0.05 | 0.001 | mg/L | 0.0500 | ND | 95.7 | 74.5-132 | | | |
| Toluene | 0.05 | 0.001 | " | 0.0500 | ND | 94.9 | 74.2-116 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 55.1 | | ug/L | 62.5 | | 88.1 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 69.0 | | " | 62.5 | | 110 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 71.9 | | " | 62.5 | | 115 | 81.5-117 | | | |

Matrix Spike Dup (OC04006-MSD1)

Source: X003006-04

Prepared: 03/04/2010 Analyzed: 03/04/2010

| | | | | | | | | | | |
|---|------|-------|------|--------|----|------|----------|------|------|--|
| Benzene | 0.05 | 0.001 | mg/L | 0.0500 | ND | 98.2 | 74.5-132 | 2.56 | 13.1 | |
| Toluene | 0.05 | 0.001 | " | 0.0500 | ND | 98.9 | 74.2-116 | 4.09 | 21.2 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 56.0 | | ug/L | 62.5 | | 89.6 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 70.0 | | " | 62.5 | | 112 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 68.8 | | " | 62.5 | | 110 | 81.5-117 | | | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

Notes and Definitions

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

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

4/19/2010

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

Project Name- Noble - Collins 14-20

Project Number- NEPO835

Attached are your analytical results for Noble - Collins 14-20 received by Origins Laboratory, Inc. April 14, 2010 5:00 pm. This project is associated with Origins project number X004111-01 .

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

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

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



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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled | Date Received |
|-----------|---------------|--------|----------------------|------------------|
| SB08 | X004111-01 | Water | 4/14/2010 12:55:00PM | 04/14/2010 17:00 |
| SB09 | X004111-02 | Water | 4/14/2010 2:50:00PM | 04/14/2010 17:00 |
| SB11 | X004111-03 | Water | 4/14/2010 2:20:00PM | 04/14/2010 17:00 |
| SB12 | X004111-04 | Water | 4/14/2010 1:40:00PM | 04/14/2010 17:00 |
| SB13 | X004111-05 | Water | 4/14/2010 1:15:00PM | 04/14/2010 17:00 |
| SB14-R | X004111-06 | Water | 4/14/2010 2:40:00PM | 04/14/2010 17:00 |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
 Project Number: NEP0835
 Project: Noble - Collins 14-20

www.originslaboratory.com

X004111

page 1 of 1

Client: LT Environmental
 Address: 4600 W 60th Arvada CO 80003
 Telephone Number: 303-433-9788
 Email Address: mharrison@ltenv.com

Project Manager: Matt Harrison
 Project Name: Collins 14-20
 Project Number: NEP0835
 Samples Collected By: Danny Burns

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions | |
|-----------------------------|---------------|--------------|-----------------|--------------|-----|------------------|-------|-------------------------|---------------|-------------|----------|--|-------|
| | | | | unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa # | | | Other |
| SB08 | 4/14/10 | 12:55 | 2 | X | | | | X | | | | 1 | |
| SB09 | | 14:50 | 2 | X | | | | X | | | | 2 | |
| SB11 | | 14:20 | 2 | X | | | | X | | | | 3 | |
| SB12 | | 13:40 | 2 | X | | | | X | | | | 4 | |
| SB13 | | 13:15 | 2 | X | | | | X | | | | 5 | |
| SB14-R | | 14:40 | 2 | X | | | | X | | | | 6 | |
| | | | | | | | | | | | | 7 | |
| | | | | | | | | | | | | 8 | |
| | | | | | | | | | | | | 9 | |
| | | | | | | | | | | | | 10 | |
| Relinquished By: <i>DJB</i> | Date: 4/14/10 | Time: 17:00 | | | | | | Received By: <i>RHB</i> | Date: 4/14/10 | Time: 17:00 | | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/> | |
| Relinquished By: | Date: | Time: | | | | | | Received By: | Date: 4/14/10 | Time: 17:00 | | | |

Data Results Needed

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

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB08

4/14/2010 12:55:00PM

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

Origins Laboratory, Inc.
X004111-01 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|--|
| Benzene | ND | 1.00 | ug/L | 1 | OD15001 | 04/15/2010 | 04/15/2010 | |
| Toluene | ND | 1.00 | " | " | " | " | " | |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 95.7 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.2 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB09

4/14/2010 2:50:00PM

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

Origins Laboratory, Inc.
X004111-02 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|--|
| Benzene | ND | 1.00 | ug/L | 1 | OD15001 | 04/15/2010 | 04/15/2010 | |
| Toluene | ND | 1.00 | " | " | " | " | " | |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 94.7 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 101 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB11

4/14/2010 2:20:00PM

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

Origins Laboratory, Inc.
X004111-03 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|--|
| Benzene | ND | 1.00 | ug/L | 1 | OD15001 | 04/15/2010 | 04/15/2010 | |
| Toluene | ND | 1.00 | " | " | " | " | " | |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 96.8 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 101 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB12

4/14/2010 1:40:00PM

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

Origins Laboratory, Inc.
X004111-04 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|--|
| Benzene | ND | 1.00 | ug/L | 1 | OD15001 | 04/15/2010 | 04/15/2010 | |
| Toluene | ND | 1.00 | " | " | " | " | " | |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 94.3 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 102 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB13

4/14/2010 1:15:00PM

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

Origins Laboratory, Inc.
X004111-05 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|------|------|------|---|---------|------------|------------|--|
| Benzene | ND | 1.00 | ug/L | 1 | OD15001 | 04/15/2010 | 04/15/2010 | |
| Toluene | 11.9 | 1.00 | " | " | " | " | " | |
| Ethylbenzene | 37.0 | 1.00 | " | " | " | " | " | |
| Xylenes, total | 280 | 1.00 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 96.0 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.1 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB14-R

4/14/2010 2:40:00PM

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

Origins Laboratory, Inc.
X004111-06 (Water)

BTEX by EPA 8260B

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|--|
| Benzene | ND | 1.00 | ug/L | 1 | OD15001 | 04/15/2010 | 04/15/2010 | |
| Toluene | ND | 1.00 | " | " | " | " | " | |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 73.5-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 95.5 % | 79.3-113 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 101 % | 81.5-117 | | | " | " | " | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
 Project Number: NEP0835
 Project: Noble - Collins 14-20

**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 OD15001 - EPA 5030B | | | | | | | | | | |
| Blank (OD15001-BLK1) | | | | | Prepared: 04/15/2010 Analyzed: 04/15/2010 | | | | | |
| 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> | 64.1 | | " | 62.5 | | 103 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 60.0 | | " | 62.5 | | 96.0 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 61.3 | | " | 62.5 | | 98.1 | 81.5-117 | | | |
| LCS (OD15001-BS1) | | | | | Prepared: 04/15/2010 Analyzed: 04/15/2010 | | | | | |
| Benzene | 49.3 | 1.00 | ug/L | 50.0 | | 98.6 | 77.3-128 | | | |
| Toluene | 49.8 | 1.00 | " | 50.0 | | 99.5 | 81.7-118 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 63.6 | | " | 62.5 | | 102 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 62.5 | | " | 62.5 | | 100 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 63.4 | | " | 62.5 | | 101 | 81.5-117 | | | |
| Matrix Spike (OD15001-MS1) | | | | | Source: X004111-01 | | Prepared: 04/15/2010 Analyzed: 04/15/2010 | | | |
| Benzene | 48.0 | 1.00 | ug/L | 50.0 | ND | 96.1 | 74.5-132 | | | |
| Toluene | 47.7 | 1.00 | " | 50.0 | ND | 95.5 | 74.2-116 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 62.8 | | " | 62.5 | | 100 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 61.3 | | " | 62.5 | | 98.1 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 64.2 | | " | 62.5 | | 103 | 81.5-117 | | | |
| Matrix Spike Dup (OD15001-MSD1) | | | | | Source: X004111-01 | | Prepared: 04/15/2010 Analyzed: 04/15/2010 | | | |
| Benzene | 49.4 | 1.00 | ug/L | 50.0 | ND | 98.7 | 74.5-132 | 2.69 | 13.1 | |
| Toluene | 48.8 | 1.00 | " | 50.0 | ND | 97.5 | 74.2-116 | 2.13 | 21.2 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 63.6 | | " | 62.5 | | 102 | 73.5-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 60.6 | | " | 62.5 | | 96.9 | 79.3-113 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 62.9 | | " | 62.5 | | 101 | 81.5-117 | | | |

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

Notes and Definitions

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

Origins Laboratory, Inc.

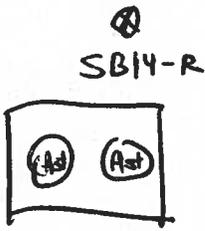


The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle E Doyle, Laboratory Manager

APPENDIX B
LITHOLOGIC WELL LOG

Well Location Sketch:



-2-



Compliance - Engineering - Remediation

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | |
|----------------------------|-------------------------|
| Boring/Well Number: SB-14R | Project: Collins 14-20 |
| Date: 3/31/10 | Project Number: NEP0835 |
| Logged By: M. Harrison | Drilled By: Alpine |

| | | | |
|------------|-----------|------------------------------|------------------------|
| Elevation: | Detector: | Drilling Method: Direct Push | Sampling Method: Cont. |
|------------|-----------|------------------------------|------------------------|

| | | |
|-------------------------|-----------------------|-----------|
| Gravel Pack: 10-20 Sand | Seal: Bentonite Chips | Grout: NA |
|-------------------------|-----------------------|-----------|

| | | | | |
|-------------------------|--------------|-------------|-------------------|------------------|
| Casing Type: Sch 40 PUC | Diameter: 1" | Length: 10' | Hole Diameter: 2" | Depth to Liquid: |
|-------------------------|--------------|-------------|-------------------|------------------|

| | | | | | |
|-------------------------|--------------|--------------|-------------|------------------|-----------------|
| Screen Type: Sch 40 PVC | Slot: 0.010" | Diameter: 1" | Length: 10' | Total Depth: 20' | Depth to Water: |
|-------------------------|--------------|--------------|-------------|------------------|-----------------|

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Recovery | Soil/Rock Type | Lithology/Remarks | Well Completion Diagram |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------|----------------|--|-------------------------|
| | | | | | 0 | | | | | |
| | dry | Ø | NO | | 2 | | | | Lithology consist of small, gravel, and silty, sand. Backfill from previous excavation. | |
| | | Ø | NO | | 4 | | | | | |
| | wet | Ø | NO | | 6 | | | | | |
| | | Ø | NO | | 8 | | | | | |
| | | Ø | NO | | 10 | | | | | |
| | | Ø | NO | | 12 | | | | | |
| | | Ø | NO | | 14 | | | | | |
| | | Ø | NO | | 16 | | | | | |
| | | Ø | NO | | 18 | | | | | |
| | | Ø | NO | | 20 | | | | | |
| | | | | | 22 | | | | | |
| | | | | | 24 | | | | | |
| | | | | | 26 | | | | | |
| | | | | | 28 | | | | | |
| | | | | | 30 | | | | | |
| | | | | | 32 | | | | | |
| | | | | | 34 | | | | | |
| | | | | | 36 | | | | | |
| | | | | | 38 | | | | | |
| | | | | | 40 | | | | | |