

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

GENERAL INFORMATION

| | | | |
|---|--|--|--|
| OGCC Operator Number: 10071 | | Contact Name and Telephone | |
| Name of Operator: <u>Bill Barrett Corporation (BBC)</u> | | Name: <u>Scott Ghan</u> | |
| Address: <u>112 Red Feather Trail</u> | | No: <u>(970) 867-1959</u> | |
| City: <u>Silt</u> State: <u>CO</u> Zip: <u>81652</u> | | Fax: <u>(970) 867-0981</u> | |
| API/Facility No: <u>05-045-14263</u> | | County: <u>Garfield</u> | |
| Facility Name: <u>Specialty 1 Pipeline ROW</u> | | Facility Number: _____ | |
| Well Name: <u>Specialty</u> | | Well Number: <u>11A-28-692</u> | |
| Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NENW Sec 28 T6S R92W</u> | | Latitude: <u>39.503875</u> Longitude: <u>-107.676153</u> | |

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Potts loam, 6 to 12 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): An irrigation pond is located 420 ft north of the site; a groundwater monitoring well (permit # 262506) is located 530 ft southeast of the site; and depth to groundwater is estimated to be at least 30' ft bgs

Description of Impact (if previously provided, refer to that form or document):

| | | |
|---|-----------------------------------|--|
| Impacted Media (check): | Extent of Impact: | How Determined: |
| <input checked="" type="checkbox"/> Soils | <u>145 ft x 5 ft x 0.8 ft bgs</u> | <u>Soil samples were submitted for laboratory analysis</u> |
| <input type="checkbox"/> Vegetation | _____ | _____ |
| <input type="checkbox"/> Groundwater | _____ | _____ |
| <input type="checkbox"/> Surface water | _____ | _____ |

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Form 19 was submitted on 9/24/10 (Spill #2521443)

Describe how source is to be removed:

BBC contractors bermed an area along the pipeline right of way and adjacent to the production tanks to contain the release. A vacuum truck recovered 20 bbls of produced water from the bermed areas. Following the removal of produced water, three confirmation soil samples were collected from the extent of the spill area and submitted for laboratory analysis of BTEX by EPA Method 8260B, TPH (C6-C28) by EPA modified Method 8015, COGCC Table 910-1 metals by EPA Method 6010 (arsenic by EPA Method 6020), PAHs by EPA SIM 8270C, EC and pH by USDA Agriculture Handbook Saturated Paste Method. Each of the compounds analyzed in the samples except for pH and arsenic were in compliance with Table 910-1 concentration levels. A topographic site location map and a site map are provided as Figures 1 and 2. Laboratory analytical results are summarized in Table 1.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

A total of 20 bbls of produced water was transported to an injection well for disposal.



Tracking Number: Name of Operator: BBC OGCC Operator No: 10071 Received Date: Well Name & No: Specialty 11A-28-692 Facility Name & No.: Specialty #1

REMEDIATION WORKPLAN (CONT.)

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.): Groundwater was not encountered in the spill area. Based on topography, the depth to groundwater is estimated to be approximately 30 ft bgs.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required. BBC's pipeline right of way was backfilled with clean fill material to match the existing grade.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing. Is further site investigation required? [X] Y [] N If yes, describe: Laboratory analytical results indicated the compounds analyzed in the samples except for pH and arsenic were in compliance with Table 910-1 concentration levels. Since the pipeline right of way was backfilled with 9 ft of clean fill material and buried below the vegetative root zone, BBC does not believe the elevated pH levels will affect final reclamation. The arsenic concentrations for each of the soil samples were compared to a background sample previously collected at depth during pit closure activities and are within naturally occurring concentrations. The soil samples were not analyzed for SAR due to EC concentrations that were in compliance with the COGCC Table 910-1 concentration level. Based on the analytical results, BBC is requesting No Further Action determination for this site.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.): A total of 20 bbls of produced water was transported to an injection well for disposal.

IMPLEMENTATION SCHEDULE

Table with 4 columns: Date Site Investigation Began, Date Site Investigation Completed, Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, Actual Completion Date. Values: 9/18/10, 10/5/10, 1/27/11, 9/18/10, NA, NA.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: M. Scott Ghan

Signed: [Signature] Title: Environmental H&S Coordinator Date: 1/27/11

OGCC Approved: Title: Date:

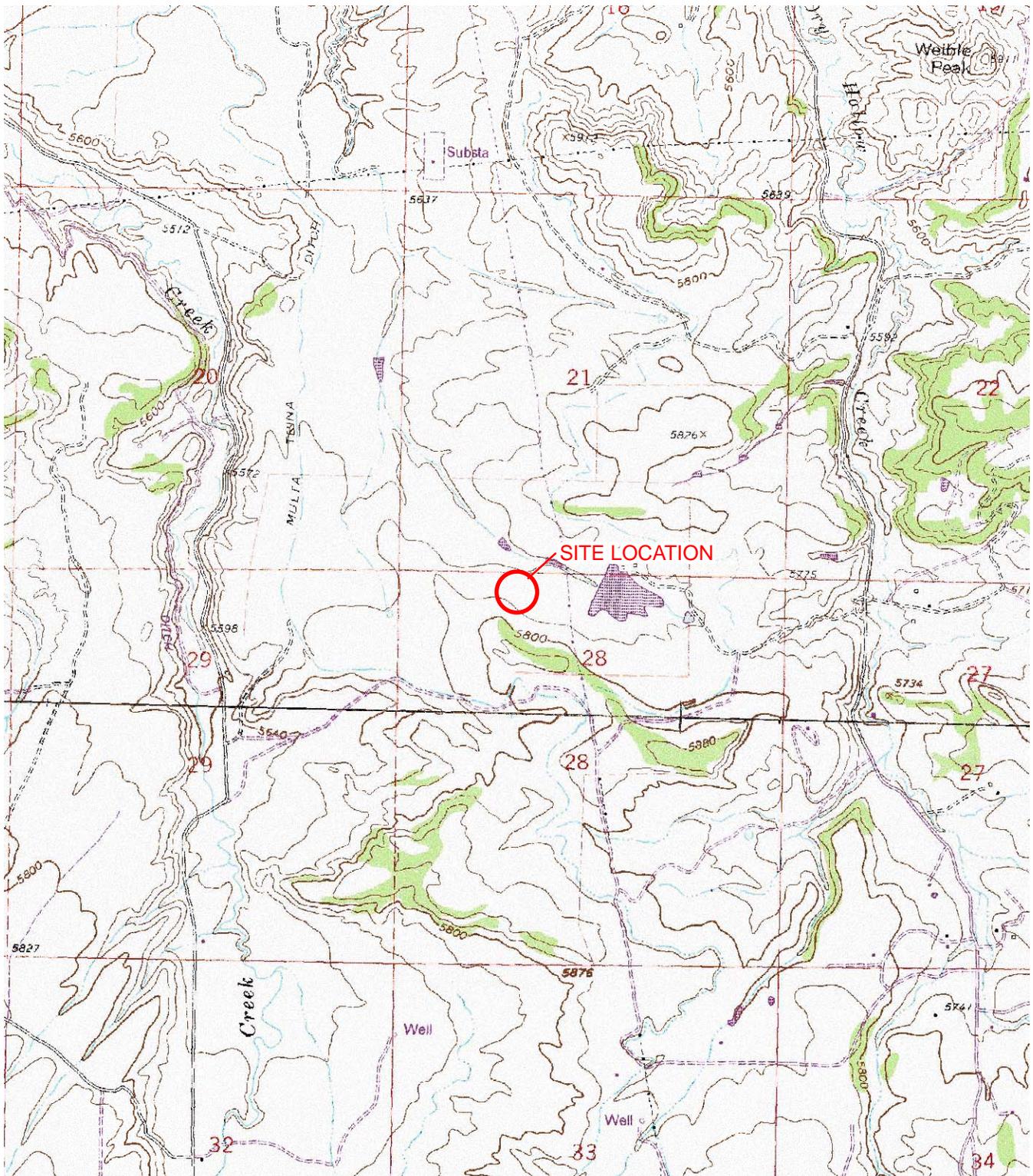


IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

LEGEND

 SITE LOCATION

NENW 28 T6S R92W

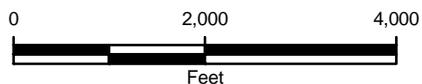


FIGURE 1
SITE LOCATION MAP
SPECIALTY #1 PIPELINE RIGHT-OF-WAY
NENW 28 6S R92W
GARFIELD COUNTY, CO
BILL BARRETT CORPORATION





PROJECT Specialty #1 Pipeline ROW

DATE 9/20/10

PROJECT MANAGER

CONT. No.

JOB No. BBC1008.02

BY _____ CHK'D _____

LOCATION

SHEET No. | OF |

95L T0038 10/1997

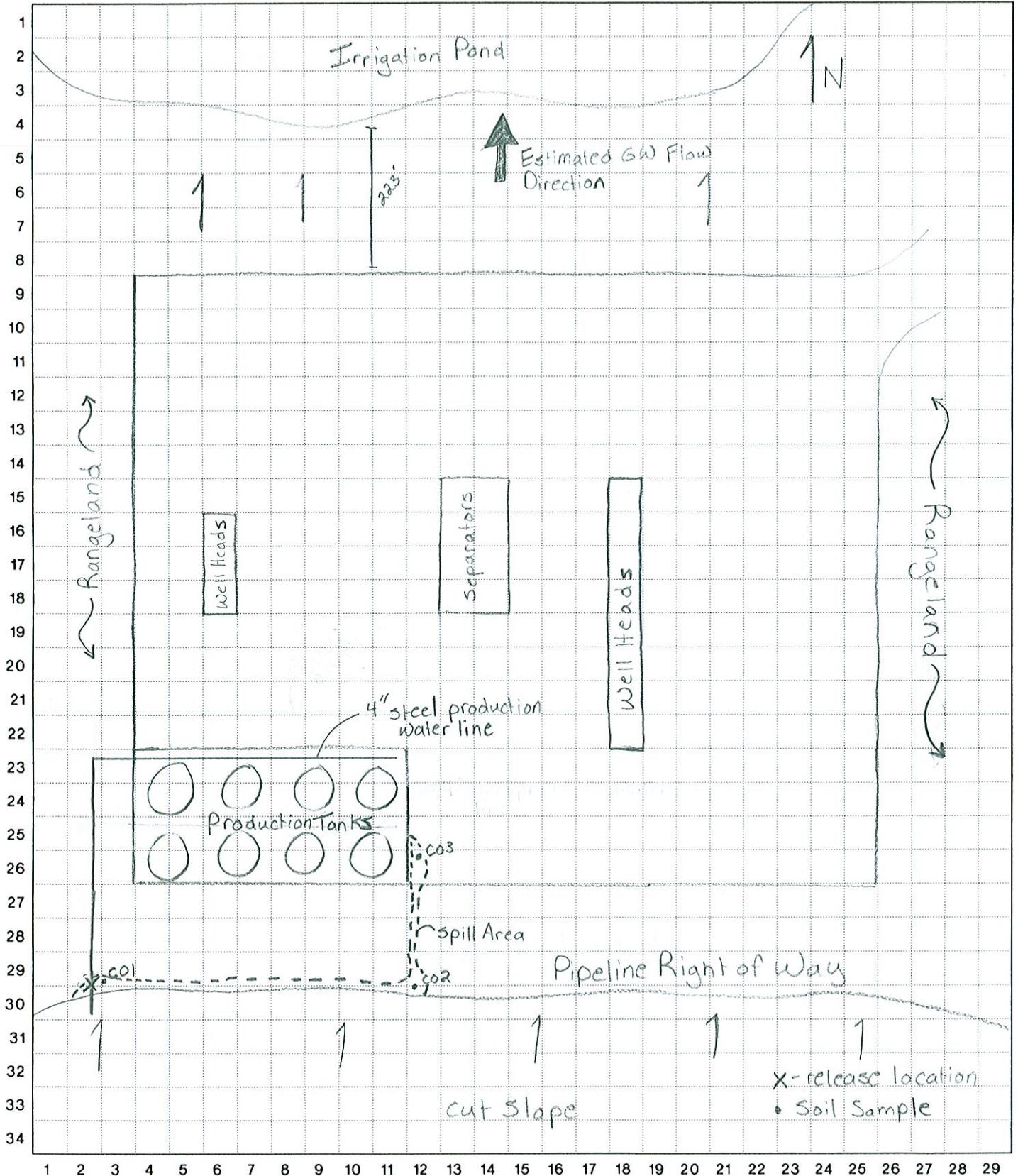


TABLE 1

**SOIL ANALYTICAL RESULTS
SPECIALTY#1 PIPELINE ROW
GARFIELD COUNTY, COLORADO**

BILL BARRETT CORPORATION

| Sample Date | | | 9/20/2010 | 9/20/2010 | 9/20/2010 | 6/21/2010 |
|-------------------------|---------|----------|-------------|-------------|-------------|------------|
| Sample ID | | | C01 | C02 | C03 | BG04@12.5' |
| Arsenic | 0.39 | mg/kg | 4.33 | 3.67 | 4.94 | 6.0 |
| Barium | 15,000 | mg/kg | 227.1 | 380.4 | 581.5 | -- |
| Cadmium | 70 | mg/kg | 0.3 | 0.3 | 0.3 | -- |
| Chromium (III) | 120,000 | mg/kg | 11.9 | 5.9 | 7.9 | -- |
| Chromium (VI) | 23 | mg/kg | <0.56 | <0.68 | <0.62 | -- |
| Copper | 3,100 | mg/kg | 75.7 | 13.5 | 13.3 | -- |
| Lead | 400 | mg/kg | 18.2 | 12.2 | 11.5 | -- |
| Mercury | 23 | mg/kg | <0.05 | <0.05 | <0.05 | -- |
| Nickel | 1,600 | mg/kg | 15.6 | 14.6 | 14.8 | -- |
| Selenium | 390 | mg/kg | 1.21 | 1.05 | 1.06 | -- |
| Silver | 390 | mg/kg | <0.1 | <0.1 | <0.1 | -- |
| Zinc | 23,000 | mg/kg | 64.18 | 60.37 | 55.04 | -- |
| EC | 4.0 | mmhos/cm | 1.14 | 0.497 | 3.60 | -- |
| pH | 6 - 9 | SU | 9.3 | 9.1 | 8.8 | -- |
| TPHGRO | | mg/kg | <0.50 | <0.50 | 2.8 | -- |
| TPHDRO | | mg/kg | <50 | <50 | <50 | -- |
| Total TPH | 500 | mg/kg | <50.50 | <50.50 | 2.8 | -- |
| Benzene | 0.17 | mg/kg | <0.0050 | <0.0050 | <0.0050 | -- |
| Toluene | 85 | mg/kg | <0.0050 | <0.0050 | 0.012 | -- |
| Ethylbenzene | 100 | mg/kg | <0.0050 | <0.0050 | 0.011 | -- |
| Total Xylenes | 175 | mg/kg | <0.0050 | <0.0050 | 0.12 | -- |
| Acenaphthene | 1000 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Anthracene | 1000 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Benzo(A)anthracene | 0.22 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Benzo(B)fluoranthene | 0.22 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Benzo(K)fluoranthene | 2.2 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Benzo(A)pyrene | 0.022 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Chrysene | 22 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Dibenzo(A,H)anthracene | 0.022 | mg/kg | <0.010 | <0.010 | <0.010 | -- |
| Fluoranthene | 1000 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Fluorene | 1000 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Indeno(1,2,3,C,D)pyrene | 0.22 | mg/kg | <0.010 | <0.010 | <0.010 | -- |
| Naphthalene | 23 | mg/kg | <0.005 | <0.005 | <0.005 | -- |
| Pyrene | 1000 | mg/kg | <0.005 | <0.005 | <0.005 | -- |

NOTES:

mg/kg - milligrams per kilogram

EC - electrical conductivity

mmhos/cm - millimhos per centimeter in saturated paste extract

SU - standard unit on saturated paste

TPHGRO - total petroleum hydrocarbons gasoline range organics

TPHDRO - total petroleum hydrocarbons diesel range organics

Total TPH - combination of TPHGRO and TPHDRO

< - less than the stated reporting limit

-- not analyzed

COGCC - Colorado Oil and Gas Conservation Commission

BOLD - indicates result is above the COGCC standard



Technical Report for

LT Environmental

Specialty 1 BBC1008

Accutest Job Number: T55001

Sampling Date: 06/21/10

Report to:

LT Environmental
820 Megan Ave, Unit B
Rifle, CO 81650
aweinberg@ltenv.com; bdodek@ltenv.com;
jjanicek@ltenv.com
ATTN: Asher Weinberg

Total number of pages in report: 18



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



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Sample Summary

LT Environmental

Job No: T55001

Specialty 1 BBC1008

| Sample Number | Collected | | Received | Matrix | | Client Sample ID |
|---------------|-----------|----------|----------|--------|------|------------------|
| | Date | Time By | | Code | Type | |
| T55001-1 | 06/21/10 | 14:45 JJ | 06/23/10 | SO | Soil | BG04@12.5' |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

| | |
|-------------------------------------|--------------------------------|
| Client Sample ID: BG04@12.5' | Date Sampled: 06/21/10 |
| Lab Sample ID: T55001-1 | Date Received: 06/23/10 |
| Matrix: SO - Soil | Percent Solids: 88.5 |
| Project: Specialty 1 BBC1008 | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|----------------------|--------|------|-------|----|----------|--------------|-------------------------|--------------------------|
| Arsenic ^a | 6.0 | 0.56 | mg/kg | 5 | 06/28/10 | 06/29/10 ANJ | SW846 6020 ¹ | SW846 3050B ² |

(1) Instrument QC Batch: N:MA24547

(2) Prep QC Batch: N:MP53399

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

10165 Harwin Dr, Ste 150 Houston, TX 77036
 TEL: 713-271-4700 FAX: 713-271-4770
 www.accutest.com

| | |
|--------------------|------------------------------|
| FED-EX Tracking # | Bottle Order Control # |
| Accutest Quote # | Accutest Job # T55001 |
| Requested Analyses | |
| Matrix Codes | |
| LAB USE ONLY | |

| Client / Reporting Information | | Project Information | | | | | | | | | | | | | | | | | | |
|--|--|--|-------|---|--------|--------------|-----|-------------------|----------------------|------------------|--------------------------------|-----------------|-----------------|-----------------------|------|-----|---------------------------------|--------|-------|--|
| Company Name LT Environmental | | Project Name: Specialty 1 | | | | | | | | | | | | | | | | | | |
| Street Address 820 Megan Ave Unit B | | Street | | Billing Information (If different from Report to) | | | | | | | | | | | | | | | | |
| City State Zip Rifle CO 81650 | | City State | | Company Name | | | | | | | | | | | | | | | | |
| Project Contact Asher Weinberg aweinberg@ltenv.com | | Project # BBC1008 | | Street Address | | | | | | | | | | | | | | | | |
| Phone # 97022859985 | | Client Purchase Order # | | City State Zip | | | | | | | | | | | | | | | | |
| Fax # | | Project Manager Asher Weinberg | | Attention: | | | | | | | | | | | | | | | | |
| Sampler(s) Name(s) Sake Janicek | | Phone # | | Collection | | | | | | | | | | | | | | | | |
| Field ID / Point of Collection B604@12.5' | | Date | Time | Sampled By | Matrix | # of bottles | HCl | NH ₄ H | Zn/NH ₄ H | HNO ₃ | H ₂ SO ₄ | NO ₂ | NO ₃ | Cl ⁻ Water | MEOH | TSP | NH ₄ SO ₄ | ENCORE | OTHER | |
| 1 | | 6-21-10 | 14:45 | JJ | SD | 1 | | | | | | | | | | | | | | |

Total Arsenic 6020

- DW - Drinking Water
- GW - Ground Water
- WW - Water
- SW - Surface Water
- SO - Soil
- SL - Sludge
- SED - Sediment
- OI - Oil
- LIQ - Other Liquid
- AIR - Air
- SOL - Other Solid
- WP - Wipe
- FB - Field Blank
- EB - Equipment Blank
- RB - Rinse Blank
- TB - Trip Blank

| | | | |
|--|-----------------------------------|--|---------------------------------|
| Turnaround Time (Business days) | Approved By (Accutest PM) / Date: | Data Deliverable Information | Comments / Special Instructions |
| <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency & Rush T/A data available VIA LabLink</small> | 7 days → Bruce Schatter | <input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULL1 (Level 3+4) <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C" <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC & Surrogate Summary</small> | |

| Sample Custody must be documented below each time samples change possession, including courier delivery. | | | |
|--|------------------------------------|------------------------------|---|
| Relinquished by Sampler: Sake Janicek | Date Time: 6-22-10 07:15 | Received By: FedEx | Relinquished By: FedEx |
| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: |
| Relinquished by: | Date Time: | Received By: | Custody Seal # |
| | | | <input type="checkbox"/> Intact Preserved where applicable <input type="checkbox"/> Not Intact |

Date Time: **0915 6-23-10**
 Received By: **2 Renee Fudelle**

SAMPLE INSPECTION FORM

Accutest Job Number: T55001 Client: LT Environmental Date/Time Received: 6-23-10 0915
of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4C
Cooler Temps: #1: 4.4C #2: #3: #4: #5: #6: #7: #8:
Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
Airbill Numbers: 8700 9644 9577

COOLER INFORMATION

- Custody seal missing or not intact
Temperature criteria not met
Wet ice received in cooler

CHAIN OF CUSTODY

- Chain of Custody not received
Sample D/T unclear or missing
Analyses unclear or missing
COC not properly executed

SAMPLE INFORMATION

- Sample containers received broken
VOC vials have headspace
Sample labels missing or illegible
ID on COC does not match label(s)
D/T on COC does not match label(s)
Sample/Bottles rec'd but no analysis on COC
Sample listed on COC, but not received
Bottles missing for requested analysis
Insufficient volume for analysis
Sample received improperly preserved

TRIP BLANK INFORMATION

- Trip Blank on COC but not received
Trip Blank received but not on COC
Trip Blank not intact
Received Water Trip Blank
Received Soil TB

Number of Encores?
Number of 5035 kits?
Number of lab-filtered metals?

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Danee Huddleston 6-23-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: G C 6-23-10

CORRECTIVE ACTIONS

Client Representative Notified: Date:

By Accutest Representative: Via: Phone Email

Client Instructions:

l:\nwalker\forms\samplemanagement



Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

| Client Information | | Subcontract Information | | Requested Analyses | | | | | | | | | | Matrix Codes | | |
|---|---------------------------|---|---------------------------|--|---------------------------|---------------------------------|---------------------------|-------------------------------------|---------------------------|---------------------------------|---------------------------|-------------------------------------|---------------------------|--|--|---------------------------|
| Company Name Accutest Gulf Coast | | Subcontract Laboratory Accutest New Jersey | | Arsenic / 6020 (Regulatory limit 0.39 mg/Kg) %SOL | | | | | | | | | | DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Liquid SOL - Other Solid | | |
| Project Contact Georgia Jones | | Laboratory Contact | | | | | | | | | | | | | | |
| Email gjones@accutest.com | | Email | | | | | | | | | | | | | | |
| Address 10165 Harwin Dr, Suite 150 | | Address 2235 Route 130, Building B | | | | | | | | | | | | | | |
| City State Zip Houston TX 77036 | | City State Zip Dayton NJ 8810 | | | | | | | | | | | | | | |
| Phone No. 713-271-4700 | | Phone No. 732-329-0200 | | | | | | | | | | | | | | |
| Accutest Sample Number | Collection | | | Number of preserved bottles | | | | | | | | | | LAB USE ONLY | | |
| | Date | Time | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | Distilled | TSP | NONE | Other | Arsenic / 6020 (mg/Kg) | | | %SOL |
| T55001-1 | 6/21/2010 | | SO | 1 | | | | | | | | | X | X | MEI | |
| Turnaround Time (Business days) | | Approved By: / Date: | | Data Deliverable Information | | | | | | | | | | Comments / Remarks | | |
| <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> Other | | | | <input type="checkbox"/> Commercial "A" <input checked="" type="checkbox"/> Commercial "B" <input type="checkbox"/> Reduced Tier 1 <input type="checkbox"/> Full Data Package | | | | | | | | | | Regulatory limit 0.39 mg/Kg <i>NAB TWS 6/21/10</i> | | |
| Real time analytical data available via Lablink | | SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY | | | | | | | | | | | | | | |
| Relinquished by: <i>[Signature]</i> | Date Time: <i>6/21/10</i> | Received By: <i>Fcd</i> | Date Time: <i>6/21/10</i> | Relinquished By: <i>[Signature]</i> | Date Time: <i>6/21/10</i> | Received By: <i>[Signature]</i> | Date Time: <i>6/21/10</i> | Relinquished By: <i>[Signature]</i> | Date Time: <i>6/21/10</i> | Received By: <i>[Signature]</i> | Date Time: <i>6/21/10</i> | Relinquished By: <i>[Signature]</i> | Date Time: <i>6/21/10</i> | Received By: <i>[Signature]</i> | Date Time: <i>6/21/10</i> | |
| 1 | | 1 | | 2 | | 2 | | 3 | | 3 | | 4 | | 4 | | |
| 3 | | 3 | | 4 | | 4 | | 5 | | 5 | | Custody Seal # | | Preserved where applicable <input type="checkbox"/> | On Ice <input checked="" type="checkbox"/> | Cooler Temp: <i>3.0°C</i> |

 4.1
4

T55001: Chain of Custody
Page 1 of 2
Accutest New Jersey



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T55001

Client:

Immediate Client Services Action Required: No

Date / Time Received: 6/25/2010

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 1

Airbill #'s:

| <u>Cooler Security</u> | <u>Y or N</u> | | | <u>Y or N</u> | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. SmpI Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Cooler Temperature</u> | <u>Y or N</u> | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

| <u>Quality Control Preservatio</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|------------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved property: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| <u>Sample Integrity - Documentation</u> | <u>Y or N</u> | |
|---|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| <u>Sample Integrity - Condition</u> | <u>Y or N</u> | |
|-------------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

| <u>Sample Integrity - Instructions</u> | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

4.1
4



Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T55001
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 06/28/10

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|-------|-------|-----------|-------|
| Aluminum | 25 | 1.1 | .52 | | |
| Antimony | 0.25 | .0085 | .022 | | |
| Arsenic | 0.50 | .061 | .11 | 0.048 | <0.50 |
| Barium | 0.50 | .017 | .038 | | |
| Beryllium | 0.25 | .013 | .03 | | |
| Boron | 2.5 | .29 | .25 | | |
| Cadmium | 0.25 | .01 | .016 | | |
| Calcium | 130 | 12 | 3.1 | | |
| Chromium | 2.0 | .037 | .29 | | |
| Cobalt | 0.25 | .004 | .016 | | |
| Copper | 2.0 | .024 | .036 | | |
| Iron | 25 | 3.5 | 1.9 | | |
| Lead | 0.25 | .0055 | .012 | | |
| Magnesium | 130 | 1.2 | 1.4 | | |
| Manganese | 0.25 | .036 | .02 | | |
| Molybdenum | 0.50 | .071 | .096 | | |
| Nickel | 2.0 | .027 | .026 | | |
| Potassium | 130 | 2.5 | 3.9 | | |
| Selenium | 0.50 | .042 | .058 | | |
| Silver | 1.0 | .0065 | .022 | | |
| Sodium | 130 | 5.9 | 1.3 | | |
| Strontium | 0.50 | .013 | .0082 | | |
| Thallium | 0.25 | .012 | .0051 | | |
| Tin | 0.50 | .039 | | | |
| Titanium | 0.50 | .04 | .27 | | |
| Uranium | 0.50 | | | | |
| Vanadium | 2.0 | .24 | .79 | | |
| Zinc | 2.0 | .25 | .91 | | |

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

| Metal | T55002-3 Original MS | SpikeLot MPIRS1 | % Rec | QC Limits | |
|------------|-------------------------|--------------------|-------|--------------|--------|
| Aluminum | | | | | |
| Antimony | | | | | |
| Arsenic | 3.2 | 429 | 401 | 106.2 | 75-125 |
| Barium | | | | | |
| Beryllium | | | | | |
| Boron | | | | | |
| Cadmium | | | | | |
| Calcium | | | | | |
| Chromium | | | | | |
| Cobalt | | | | | |
| Copper | | | | | |
| Iron | | | | | |
| Lead | | | | | |
| Magnesium | | | | | |
| Manganese | | | | | |
| Molybdenum | | | | | |
| Nickel | | | | | |
| Potassium | | | | | |
| Selenium | | | | | |
| Silver | | | | | |
| Sodium | | | | | |
| Strontium | | | | | |
| Thallium | | | | | |
| Tin | | | | | |
| Titanium | | | | | |
| Uranium | | | | | |
| Vanadium | | | | | |
| Zinc | | | | | |

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

| Metal | T55002-3 Original MSD | Spikelot MPIRS1 | % Rec | MSD RPD | QC Limit | |
|------------|--------------------------|--------------------|-------|------------|-------------|----|
| Aluminum | | | | | | |
| Antimony | | | | | | |
| Arsenic | 3.2 | 458 | 426 | 106.8 | 6.5 | 20 |
| Barium | | | | | | |
| Beryllium | | | | | | |
| Boron | | | | | | |
| Cadmium | | | | | | |
| Calcium | | | | | | |
| Chromium | | | | | | |
| Cobalt | | | | | | |
| Copper | | | | | | |
| Iron | | | | | | |
| Lead | | | | | | |
| Magnesium | | | | | | |
| Manganese | | | | | | |
| Molybdenum | | | | | | |
| Nickel | | | | | | |
| Potassium | | | | | | |
| Selenium | | | | | | |
| Silver | | | | | | |
| Sodium | | | | | | |
| Strontium | | | | | | |
| Thallium | | | | | | |
| Tin | | | | | | |
| Titanium | | | | | | |
| Uranium | | | | | | |
| Vanadium | | | | | | |
| Zinc | | | | | | |

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

5.1.2
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

| Metal | BSP Result | Spikelot MPIRS1 | % Rec | QC Limits |
|------------|---------------|--------------------|-------|--------------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | 408 | 400 | 102.0 | 80-120 |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Potassium | | | | |
| Selenium | | | | |
| Silver | | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.1.3
5

SERIAL DILUTION RESULTS SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 06/28/10

| Metal | T55002-3 | | | QC |
|-------|----------|----------|------|--------|
| | Original | SDL 5:25 | %DIF | Limits |

| | | | | |
|------------|------|------|-----|------|
| Aluminum | | | | |
| Antimony | | | | |
| Arsenic | 32.3 | 33.5 | 3.9 | 0-10 |
| Barium | | | | |
| Beryllium | | | | |
| Boron | | | | |
| Cadmium | | | | |
| Calcium | | | | |
| Chromium | | | | |
| Cobalt | | | | |
| Copper | | | | |
| Iron | | | | |
| Lead | | | | |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Potassium | | | | |
| Selenium | | | | |
| Silver | | | | |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | | | | |
| Tin | | | | |
| Titanium | | | | |
| Uranium | | | | |
| Vanadium | | | | |
| Zinc | | | | |

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.1.4
 5

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 05, 2010

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

RE: BBC - Specialty #1 Pipeline Release

Enclosed are the results of analyses for samples received by Summit Scientific on 09/21/10 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'LS' followed by a long horizontal flourish.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------|----------------|
| C01 | R009172-01 | Soil | 09/20/10 11:54 | 09/21/10 10:30 |
| C02 | R009172-02 | Soil | 09/20/10 12:05 | 09/21/10 10:30 |
| C03 | R009172-03 | Soil | 09/20/10 12:13 | 09/21/10 10:30 |

Summit Scientific

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



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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Summit Scientific

2009172

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-277-9311 Fax

Page of

Client: LT Environmental
Address: 820 Megan Avenue Unit B
City/State/Zip: Rifle, CO 81650
Phone: (970) 285-9985 Fax: (970) 285 2467
Sampler Name: Asher Weinberg

Project Manager: Asher Weinberg
E-Mail: aweinberg@ltenv.com
Project Name: Specialty #1 Pipeline Release
Project Number: BBC1008.02

| Sample Description | Date Sampled | Time Sampled | Number of Containers | Preservative | | | | Matrix | | | | Analyze For: | | | | Special Instructions | | |
|----------------------------|--------------|--------------|----------------------|--------------------------|------------------------|------|-----------------|--------|--------------------------|---|-----------------|--------------|--------------|--|---------------|----------------------|----|---|
| | | | | HCl | HNO ₃ | None | Other (Specify) | Soil | Groundwater | Air - Canister Serial # | Other (Specify) | 8260 BTEX | TPH (C6-C28) | Table 910-1 Metals* | PAHs 8270 SIM | | EC | pH |
| C01 | 9/20/2010 | 11:54 | 5 | | X | | | X | | | | | | | | | | If EC exceeds 4 minutes per cm please run SAR |
| C02 | 9/20/2010 | 12:05 | 5 | | X | | | X | | | | | | | | | | |
| C03 | 9/20/2010 | 12:13 | 5 | | X | | | X | | | | | | | | | | |
| Relinquished by: <i>AW</i> | | | | Date/Time: 9/20/10 14:54 | Received by: <i>AW</i> | | | | Date/Time: 9/20/10 10:30 | Turn Around Time (Check) | | | | Notes: *As, B, Cd, Cr, III, Cu, Fe, Pb, Hg, Ni, Se, Ag, Zn | | | | |
| Relinquished by: | | | | Date/Time: | Received by: | | | | Date/Time: | Sample Integrity: | | | | Temperature Upon Receipt: 4.6 | | | | |
| Relinquished by: | | | | Date/Time: | Received in Lab by: | | | | Date/Time: | Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | | | | | |



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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C01
R009172-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|------------------|-------|
| Acenaphthene | ND | 5.00 | ug/kg | 1 | 0093006 | 09/30/10 | 10/02/10 | EPA 8270D SIM | |
| Acenaphthylene | ND | 5.00 | " | " | " | " | " | " | |
| Anthracene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 5.00 | " | " | " | " | " | " | |
| Chrysene | ND | 5.00 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 10.0 | " | " | " | " | " | " | |
| Fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Fluorene | ND | 5.00 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 10.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 5.00 | " | " | " | " | " | " | |
| Phenanthrene | ND | 5.00 | " | " | " | " | " | " | |
| Pyrene | ND | 5.00 | " | " | " | " | " | " | |

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: Nitrobenzene-d5 | | 43.8 % | 30-120 | | " | " | " | " | |
| Surrogate: 2-Fluorobiphenyl | | 69.3 % | 30-120 | | " | " | " | " | |
| Surrogate: 2,4,6-Tribromophenol | | 40.1 % | 30-120 | | " | " | " | " | |
| Surrogate: Terphenyl-d14 | | 70.1 % | 30-120 | | " | " | " | " | |

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 0092110 | 09/21/10 | 09/22/10 | 8015 DRO | |

Summit Scientific

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C01
R009172-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----------------|----------|----------|---------|----------|----------|----------|-------|
| Surrogate: <i>o</i> -Terphenyl | | 102 % | 88.8-124 | | 0092110 | 09/21/10 | 09/22/10 | 8015 DRO | |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0050 | mg/kg | 1 | 0092111 | 09/21/10 | 09/22/10 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.0050 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|----------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 110 % | 67.4-143 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98.0 % | 77.3-114 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 78.4-125 | | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------------|-------|
| Specific Conductance (EC) | 1.14 | 0.00100 | mmhos/cm | 1 | 0092108 | 09/21/10 | 09/21/10 | SM 2510b/mod | |

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 9.3 | | pH Units | " | 0092109 | 09/21/10 | 09/21/10 | EPA 9045B | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C01
R009172-01 (Soil)

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|--------------|-----------|-------|----------|---------|----------|----------|---------|-------|
| | | Limit | Units | | | | | | |
| Arsenic | 4.33 | 0.05 | mg/kg | 1 | 0100505 | 10/04/10 | 10/04/10 | SW6010B | |
| Barium | 227.1 | 0.1 | " | " | " | " | " | " | |
| Cadmium | 0.3 | 0.1 | " | " | " | " | " | " | |
| Copper | 75.7 | 0.1 | " | " | " | " | " | " | |
| Lead | 18.2 | 0.1 | " | " | " | " | " | " | |
| Nickel | 15.6 | 0.1 | " | " | " | " | " | " | |
| Selenium | 1.21 | 0.05 | " | " | " | " | " | " | |
| Silver | ND | 0.1 | " | " | " | " | " | " | |
| Zinc | 64.18 | 0.05 | " | " | " | " | " | " | |

Colorado Analytical Laboratories - Total Metals by APHA/EPA Methods

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Mercury | ND | 0.05 | mg/kg | 1 | 0100505 | 09/30/10 | 09/30/10 | EPA 7471A | |

Evergreen Analytical Laboratories

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|-------------|-----------|-------|----------|---------|----------|----------|-----------|-------|
| | | Limit | Units | | | | | | |
| Chromium | 11.9 | 1.1 | mg/kg | 1 | 0100501 | 10/05/10 | 10/05/10 | EPA 6010A | |

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-------|----------|---------|----------|----------|----------------|-------|
| | | Limit | Units | | | | | | |
| Chromium, Hexavalent | ND | 0.56 | mg/kg | 1 | 0100501 | " | 10/05/10 | SW6010B Cr6 | |

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

Summit Scientific

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
 Project Manager: Asher Weinberg

Reported:
 10/05/10 18:34

C01
R009172-01 (Soil)

Summit Scientific

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

Date Sampled: **09/20/10 11:54**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------|-------------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| Chromium+3 Calculated | 11.9 | 1.7 | mg/kg | 1 | 0100501 | 10/05/10 | 10/05/10 | CalcCr+3 | |

Summit Scientific

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C02
R009172-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 5.00 | ug/kg | 1 | 0093006 | 09/30/10 | 10/02/10 | EPA 8270D SIM | |
| Acenaphthylene | ND | 5.00 | " | " | " | " | " | " | |
| Anthracene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 5.00 | " | " | " | " | " | " | |
| Chrysene | ND | 5.00 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 10.0 | " | " | " | " | " | " | |
| Fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Fluorene | ND | 5.00 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 10.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 5.00 | " | " | " | " | " | " | |
| Phenanthrene | ND | 5.00 | " | " | " | " | " | " | |
| Pyrene | ND | 5.00 | " | " | " | " | " | " | |

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: Nitrobenzene-d5 | | 62.1 % | 30-120 | | " | " | " | " | |
| Surrogate: 2-Fluorobiphenyl | | 90.2 % | 30-120 | | " | " | " | " | |
| Surrogate: 2,4,6-Tribromophenol | | 42.8 % | 30-120 | | " | " | " | " | |
| Surrogate: Terphenyl-d14 | | 54.8 % | 30-120 | | " | " | " | " | |

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 0092110 | 09/21/10 | 09/22/10 | 8015 DRO | |

Summit Scientific

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C02
R009172-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----------------|----------|----------|---------|----------|----------|----------|-------|
| Surrogate: <i>o</i> -Terphenyl | | 103 % | 88.8-124 | | 0092110 | 09/21/10 | 09/22/10 | 8015 DRO | |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0050 | mg/kg | 1 | 0092111 | 09/21/10 | 09/22/10 | EPA 8260B | |
| Toluene | ND | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.0050 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | " | " | " | " | " | |

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|----------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | | 113 % | 67.4-143 | | " | " | " | " | |
| Surrogate: Toluene-d8 | | 98.4 % | 77.3-114 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | 78.4-125 | | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------------|-------|
| Specific Conductance (EC) | 0.497 | 0.00100 | mmhos/cm | 1 | 0092108 | 09/21/10 | 09/21/10 | SM 2510b/mod | |

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------|------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 9.1 | | pH Units | " | 0092109 | 09/21/10 | 09/21/10 | EPA 9045B | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C02
R009172-02 (Soil)

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|--------------|-----------------|-------|----------|---------|----------|----------|---------|-------|
| Arsenic | 3.67 | 0.05 | mg/kg | 1 | 0100505 | 10/04/10 | 10/04/10 | SW6010B | |
| Barium | 380.4 | 0.1 | " | " | " | " | " | " | |
| Cadmium | 0.3 | 0.1 | " | " | " | " | " | " | |
| Copper | 13.5 | 0.1 | " | " | " | " | " | " | |
| Lead | 12.2 | 0.1 | " | " | " | " | " | " | |
| Nickel | 14.6 | 0.1 | " | " | " | " | " | " | |
| Selenium | 1.05 | 0.05 | " | " | " | " | " | " | |
| Silver | ND | 0.1 | " | " | " | " | " | " | |
| Zinc | 60.37 | 0.05 | " | " | " | " | " | " | |

Colorado Analytical Laboratories - Total Metals by APHA/EPA Methods

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Mercury | ND | 0.05 | mg/kg | 1 | 0100505 | 09/30/10 | 09/30/10 | EPA 7471A | |

Evergreen Analytical Laboratories

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Chromium | 5.9 | 1.3 | mg/kg | 1 | 0100501 | 10/05/10 | 10/05/10 | EPA 6010A | |

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|----------------|-------|
| Chromium, Hexavalent | ND | 0.68 | mg/kg | 1 | 0100501 | " | 10/05/10 | SW6010B Cr6 | |

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
 Project Manager: Asher Weinberg

Reported:
 10/05/10 18:34

C02
R009172-02 (Soil)

Summit Scientific

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

Date Sampled: **09/20/10 12:05**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------|------------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| Chromium+3 Calculated | 5.9 | 2 | mg/kg | 1 | 0100501 | 10/05/10 | 10/05/10 | CalcCr+3 | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C03
R009172-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Acenaphthene | ND | 5.00 | ug/kg | 1 | 0093006 | 09/30/10 | 10/02/10 | EPA 8270D SIM | |
| Acenaphthylene | ND | 5.00 | " | " | " | " | " | " | |
| Anthracene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (g,h,i) perylene | ND | 5.00 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 5.00 | " | " | " | " | " | " | |
| Chrysene | ND | 5.00 | " | " | " | " | " | " | |
| Dibenz (a,h) anthracene | ND | 10.0 | " | " | " | " | " | " | |
| Fluoranthene | ND | 5.00 | " | " | " | " | " | " | |
| Fluorene | ND | 5.00 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 10.0 | " | " | " | " | " | " | |
| Naphthalene | ND | 5.00 | " | " | " | " | " | " | |
| Phenanthrene | ND | 5.00 | " | " | " | " | " | " | |
| Pyrene | ND | 5.00 | " | " | " | " | " | " | |

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: Nitrobenzene-d5 | | 71.9 % | 30-120 | | " | " | " | " | |
| Surrogate: 2-Fluorobiphenyl | | 86.0 % | 30-120 | | " | " | " | " | |
| Surrogate: 2,4,6-Tribromophenol | | 70.6 % | 30-120 | | " | " | " | " | |
| Surrogate: Terphenyl-d14 | | 79.3 % | 30-120 | | " | " | " | " | |

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| C10-C28 (DRO) | ND | 50 | mg/kg | 1 | 0092110 | 09/21/10 | 09/22/10 | 8015 DRO | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C03
R009172-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------|--------|-----------------|----------|----------|---------|----------|----------|----------|-------|
| Surrogate: <i>o</i> -Terphenyl | | 102 % | 88.8-124 | | 0092110 | 09/21/10 | 09/22/10 | 8015 DRO | |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-----------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene | ND | 0.0050 | mg/kg | 1 | 0092111 | 09/21/10 | 09/22/10 | EPA 8260B | |
| Toluene | 0.012 | 0.0050 | " | " | " | " | " | " | |
| Ethylbenzene | 0.011 | 0.0050 | " | " | " | " | " | " | |
| Xylenes (total) | 0.12 | 0.0050 | " | " | " | " | " | " | |
| Gasoline Range Hydrocarbons | 2.8 | 0.50 | " | " | " | " | " | " | |

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|----------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane- <i>d</i> 4 | | 115 % | 67.4-143 | | " | " | " | " | |
| Surrogate: Toluene- <i>d</i> 8 | | 83.3 % | 77.3-114 | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 117 % | 78.4-125 | | " | " | " | " | |

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------------|-------|
| Specific Conductance (EC) | 3.60 | 0.00100 | mmhos/cm | 1 | 0092108 | 09/21/10 | 09/21/10 | SM 2510b/mod | |

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| pH | 8.8 | | pH Units | " | 0092109 | 09/21/10 | 09/21/10 | EPA 9045B | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C03
R009172-03 (Soil)

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting | | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|---|----------|----------|----------|----------|--------|-------|
| | | Limit | Units | | | | | | | |
| Arsenic | 4.94 | 0.05 | mg/kg | 1 | 0100505 | 10/04/10 | 10/04/10 | SW6010B | | |
| Barium | 581.5 | 0.1 | " | " | " | " | " | " | | |
| Cadmium | 0.3 | 0.1 | " | " | " | " | " | " | | |
| Copper | 13.3 | 0.1 | " | " | " | " | " | " | | |
| Lead | 11.5 | 0.1 | " | " | " | " | " | " | | |
| Nickel | 14.8 | 0.1 | " | " | " | " | " | " | | |
| Selenium | 1.06 | 0.05 | " | " | " | " | " | " | | |
| Silver | ND | 0.1 | " | " | " | " | " | " | | |
| Zinc | 55.04 | 0.05 | " | " | " | " | " | " | | |

Colorado Analytical Laboratories - Total Metals by APHA/EPA Methods

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting | | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|-----------|-------|---|----------|----------|----------|-----------|--------|-------|
| | | Limit | Units | | | | | | | |
| Mercury | ND | 0.05 | mg/kg | 1 | 0100505 | 09/30/10 | 09/30/10 | EPA 7471A | | |

Evergreen Analytical Laboratories

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting | | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------|--------|-----------|-------|---|----------|----------|----------|-----------|--------|-------|
| | | Limit | Units | | | | | | | |
| Chromium | 7.9 | 1.2 | mg/kg | 1 | 0100501 | 10/05/10 | 10/05/10 | EPA 6010A | | |

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting | | | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------|--------|-----------|-------|---|----------|-------|----------|----------------|--------|-------|
| | | Limit | Units | | | | | | | |
| Chromium, Hexavalent | ND | 0.62 | mg/kg | 1 | 0100501 | " | 10/05/10 | SW6010B Cr6 | | |

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
 Project Manager: Asher Weinberg

Reported:
 10/05/10 18:34

C03

R009172-03 (Soil)

Summit Scientific

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

Date Sampled: **09/20/10 12:13**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------|------------|-----------------|-------|----------|---------|----------|----------|----------|-------|
| Chromium+3 Calculated | 7.9 | 1.8 | mg/kg | 1 | 0100501 | 10/05/10 | 10/05/10 | CalcCr+3 | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
 Project Manager: Asher Weinberg

Reported:
 10/05/10 18:34

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch 0093006 - EPA 3550A

Blank (0093006-BLK1)

Prepared: 09/30/10 Analyzed: 10/02/10

| | | | | | | | | | | |
|---------------------------------|------|------|-------|------|------|--|--------|--|--|--|
| Acenaphthene | ND | 5.00 | ug/kg | | | | | | | |
| Acenaphthylene | ND | 5.00 | " | | | | | | | |
| Anthracene | ND | 5.00 | " | | | | | | | |
| Benzo (a) anthracene | ND | 5.00 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 5.00 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 5.00 | " | | | | | | | |
| Benzo (g,h,i) perylene | ND | 5.00 | " | | | | | | | |
| Benzo (a) pyrene | ND | 5.00 | " | | | | | | | |
| Chrysene | ND | 5.00 | " | | | | | | | |
| Dibenz (a,h) anthracene | ND | 10.0 | " | | | | | | | |
| Fluoranthene | ND | 5.00 | " | | | | | | | |
| Fluorene | ND | 5.00 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 10.0 | " | | | | | | | |
| Naphthalene | ND | 5.00 | " | | | | | | | |
| Phenanthrene | ND | 5.00 | " | | | | | | | |
| Pyrene | ND | 5.00 | " | | | | | | | |
| Surrogate: Nitrobenzene-d5 | 14.9 | | " | 33.3 | 44.7 | | 30-120 | | | |
| Surrogate: 2-Fluorobiphenyl | 18.6 | | " | 33.3 | 55.8 | | 30-120 | | | |
| Surrogate: 2,4,6-Tribromophenol | 7.94 | | " | 33.3 | 23.8 | | 30-120 | | | |
| Surrogate: Terphenyl-d14 | 33.7 | | " | 33.3 | 101 | | 30-120 | | | |

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 0093006 - EPA 3550A

LCS (0093006-BS1)

Prepared: 09/30/10 Analyzed: 10/02/10

| | | | | | | | | | | |
|--|-------------|------|----------|-------------|--|-------------|---------------|--|----|--|
| Acenaphthene | 14.8 | 5.00 | ug/kg | 33.3 | | 44.3 | 30-120 | | 30 | |
| Acenaphthylene | 13.9 | 5.00 | " | 33.3 | | 41.7 | 30-120 | | 30 | |
| Anthracene | 18.6 | 5.00 | " | 33.3 | | 55.9 | 30-120 | | 30 | |
| Benzo (a) anthracene | 40.7 | 5.00 | " | 33.3 | | 122 | 30-120 | | 30 | |
| Benzo (b) fluoranthene | 80.4 | 5.00 | " | 33.3 | | 241 | 30-120 | | 30 | |
| Benzo (k) fluoranthene | 58.2 | 5.00 | " | 33.3 | | 175 | 30-120 | | 30 | |
| Benzo (g,h,i) perylene | 68.8 | 5.00 | " | 33.3 | | 206 | 30-120 | | 30 | |
| Benzo (a) pyrene | 67.9 | 5.00 | " | 33.3 | | 204 | 30-120 | | 30 | |
| Chrysene | 49.5 | 5.00 | " | 33.3 | | 148 | 30-120 | | 30 | |
| Dibenz (a,h) anthracene | 68.5 | 10.0 | " | 33.3 | | 205 | 30-120 | | 30 | |
| Fluoranthene | 23.7 | 5.00 | " | 33.3 | | 71.2 | 30-120 | | 30 | |
| Fluorene | 15.1 | 5.00 | " | 33.3 | | 45.3 | 30-120 | | 30 | |
| Indeno (1,2,3-cd) pyrene | 68.5 | 10.0 | " | 33.3 | | 206 | 30-120 | | 30 | |
| Naphthalene | 15.2 | 5.00 | " | 33.3 | | 45.6 | 30-120 | | 30 | |
| Phenanthrene | 19.0 | 5.00 | " | 33.3 | | 57.0 | 30-120 | | 30 | |
| Pyrene | 39.3 | 5.00 | " | 33.3 | | 118 | 30-120 | | 30 | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>19.1</i> | | <i>"</i> | <i>33.3</i> | | <i>57.4</i> | <i>30-120</i> | | | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>16.2</i> | | <i>"</i> | <i>33.3</i> | | <i>48.7</i> | <i>30-120</i> | | | |
| <i>Surrogate: 2,4,6-Tribromophenol</i> | <i>9.52</i> | | <i>"</i> | <i>33.3</i> | | <i>28.6</i> | <i>30-120</i> | | | |
| <i>Surrogate: Terphenyl-d14</i> | <i>50.1</i> | | <i>"</i> | <i>33.3</i> | | <i>150</i> | <i>30-120</i> | | | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 0093006 - EPA 3550A

| Matrix Spike (0093006-MS1) | Source: R009172-02 | | | Prepared: 09/30/10 | | Analyzed: 10/02/10 | | | |
|--|---------------------------|------|----------|--------------------|----|--------------------|---------------|--|----|
| Acenaphthene | 17.8 | 5.00 | ug/kg | 33.3 | ND | 53.5 | 30-120 | | 30 |
| Acenaphthylene | 14.8 | 5.00 | " | 33.3 | ND | 44.5 | 30-120 | | 30 |
| Anthracene | 9.58 | 5.00 | " | 33.3 | ND | 28.7 | 30-120 | | 30 |
| Benzo (a) anthracene | 19.8 | 5.00 | " | 33.3 | ND | 59.4 | 30-120 | | 30 |
| Benzo (b) fluoranthene | 47.1 | 5.00 | " | 33.3 | ND | 141 | 30-120 | | 30 |
| Benzo (k) fluoranthene | 36.5 | 5.00 | " | 33.3 | ND | 109 | 30-120 | | 30 |
| Benzo (g,h,i) perylene | 43.3 | 5.00 | " | 33.3 | ND | 130 | 30-120 | | 30 |
| Benzo (a) pyrene | 30.4 | 5.00 | " | 33.3 | ND | 91.3 | 30-120 | | 30 |
| Chrysene | 28.1 | 5.00 | " | 33.3 | ND | 84.4 | 30-120 | | 30 |
| Dibenz (a,h) anthracene | 44.5 | 10.0 | " | 33.3 | ND | 134 | 30-120 | | 30 |
| Fluoranthene | 22.7 | 5.00 | " | 33.3 | ND | 68.0 | 30-120 | | 30 |
| Fluorene | 23.9 | 5.00 | " | 33.3 | ND | 71.8 | 30-120 | | 30 |
| Indeno (1,2,3-cd) pyrene | 41.3 | 10.0 | " | 33.3 | ND | 124 | 30-120 | | 30 |
| Naphthalene | 17.0 | 5.00 | " | 33.3 | ND | 51.1 | 30-120 | | 30 |
| Phenanthrene | 23.1 | 5.00 | " | 33.3 | ND | 69.4 | 30-120 | | 30 |
| Pyrene | 13.9 | 5.00 | " | 33.3 | ND | 41.8 | 30-120 | | 30 |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>19.8</i> | | <i>"</i> | <i>33.3</i> | | <i>59.3</i> | <i>30-120</i> | | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>23.0</i> | | <i>"</i> | <i>33.3</i> | | <i>69.1</i> | <i>30-120</i> | | |
| <i>Surrogate: 2,4,6-Tribromophenol</i> | <i>15.0</i> | | <i>"</i> | <i>33.3</i> | | <i>45.0</i> | <i>30-120</i> | | |
| <i>Surrogate: Terphenyl-d14</i> | <i>22.0</i> | | <i>"</i> | <i>33.3</i> | | <i>66.0</i> | <i>30-120</i> | | |

Summit Scientific

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch 0093006 - EPA 3550A

| Matrix Spike Dup (0093006-MSD1) | Source: R009172-02 | | | Prepared: 09/30/10 | | Analyzed: 10/02/10 | | | | |
|--|---------------------------|------|----------|---------------------------|----|---------------------------|---------------|--------|----|--|
| Acenaphthene | 17.8 | 5.00 | ug/kg | 33.3 | ND | 53.5 | 30-120 | 0.0505 | 30 | |
| Acenaphthylene | 16.1 | 5.00 | " | 33.3 | ND | 48.3 | 30-120 | 8.13 | 30 | |
| Anthracene | 18.9 | 5.00 | " | 33.3 | ND | 56.8 | 30-120 | 65.7 | 30 | |
| Benzo (a) anthracene | 37.7 | 5.00 | " | 33.3 | ND | 113 | 30-120 | 62.3 | 30 | |
| Benzo (b) fluoranthene | 82.3 | 5.00 | " | 33.3 | ND | 247 | 30-120 | 54.5 | 30 | |
| Benzo (k) fluoranthene | 48.1 | 5.00 | " | 33.3 | ND | 144 | 30-120 | 27.5 | 30 | |
| Benzo (g,h,i) perylene | 65.2 | 5.00 | " | 33.3 | ND | 196 | 30-120 | 40.5 | 30 | |
| Benzo (a) pyrene | 65.7 | 5.00 | " | 33.3 | ND | 197 | 30-120 | 73.3 | 30 | |
| Chrysene | 42.5 | 5.00 | " | 33.3 | ND | 128 | 30-120 | 40.7 | 30 | |
| Dibenz (a,h) anthracene | 64.2 | 10.0 | " | 33.3 | ND | 193 | 30-120 | 36.2 | 30 | |
| Fluoranthene | 24.4 | 5.00 | " | 33.3 | ND | 73.3 | 30-120 | 7.54 | 30 | |
| Fluorene | 18.9 | 5.00 | " | 33.3 | ND | 56.7 | 30-120 | 23.5 | 30 | |
| Indeno (1,2,3-cd) pyrene | 67.4 | 10.0 | " | 33.3 | ND | 202 | 30-120 | 48.0 | 30 | |
| Naphthalene | 16.6 | 5.00 | " | 33.3 | ND | 49.7 | 30-120 | 2.93 | 30 | |
| Phenanthrene | 23.0 | 5.00 | " | 33.3 | ND | 68.9 | 30-120 | 0.785 | 30 | |
| Pyrene | 32.5 | 5.00 | " | 33.3 | ND | 97.6 | 30-120 | 80.0 | 30 | |
| <i>Surrogate: Nitrobenzene-d5</i> | <i>20.4</i> | | <i>"</i> | <i>33.3</i> | | <i>61.2</i> | <i>30-120</i> | | | |
| <i>Surrogate: 2-Fluorobiphenyl</i> | <i>19.0</i> | | <i>"</i> | <i>33.3</i> | | <i>57.0</i> | <i>30-120</i> | | | |
| <i>Surrogate: 2,4,6-Tribromophenol</i> | <i>15.6</i> | | <i>"</i> | <i>33.3</i> | | <i>46.7</i> | <i>30-120</i> | | | |
| <i>Surrogate: Terphenyl-d14</i> | <i>35.8</i> | | <i>"</i> | <i>33.3</i> | | <i>107</i> | <i>30-120</i> | | | |

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Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 0092110 - EPA 3550A

| | | | | | | | | | | |
|--|------|----|-------|--|--|------|----------|------|--|------|
| Blank (0092110-BLK1) | | | | Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| Surrogate: o-Terphenyl | 12.5 | | " | 12.5 | | 99.8 | 88.8-124 | | | |
| Blank (0092110-BLK2) | | | | Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | | | | |
| Surrogate: o-Terphenyl | 12.0 | | " | 12.5 | | 96.2 | 88.8-124 | | | |
| LCS (0092110-BS1) | | | | Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | 81.4-129 | | | 9.26 |
| LCS (0092110-BS2) | | | | Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | 490 | 50 | mg/kg | 501 | | 97.9 | 81.4-129 | | | 9.26 |
| LCS Dup (0092110-BSD1) | | | | Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | 81.4-129 | | | 9.26 |
| LCS Dup (0092110-BSD2) | | | | Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | 498 | 50 | mg/kg | 501 | | 99.4 | 81.4-129 | 1.56 | | 9.26 |
| Matrix Spike (0092110-MS1) | | | | Source: R009173-01 Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | ND | 50 | mg/kg | | | | 77.8-133 | | | 8.48 |
| Matrix Spike (0092110-MS2) | | | | Source: R009173-01 Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | 512 | 50 | mg/kg | 501 | | 102 | 77.8-133 | | | 8.48 |
| Matrix Spike Dup (0092110-MSD1) | | | | Source: R009173-01 Prepared: 09/21/10 Analyzed: 09/22/10 | | | | | | |
| C10-C28 (DRO) | 512 | 50 | mg/kg | | | | 77.8-133 | | | 8.48 |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
 Project Manager: Asher Weinberg

Reported:
 10/05/10 18:34

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 0092110 - EPA 3550A

Matrix Spike Dup (0092110-MSD2)

Source: R009173-01

Prepared: 09/21/10 Analyzed: 09/22/10

| | | | | | | | | |
|---------------|-----|----|-------|-----|-----|----------|------|------|
| C10-C28 (DRO) | 519 | 50 | mg/kg | 501 | 104 | 77.8-133 | 1.35 | 8.48 |
|---------------|-----|----|-------|-----|-----|----------|------|------|

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 0092111 - EPA 5030 Soil MS

Blank (0092111-BLK1)

Prepared: 09/21/10 Analyzed: 09/22/10

| | | | | | | | | | | |
|---|---------------|--------|----------|---------------|-------------|-----------------|--|--|--|--|
| Benzene | ND | 0.0050 | mg/kg | | | | | | | |
| Toluene | ND | 0.0050 | " | | | | | | | |
| Ethylbenzene | ND | 0.0050 | " | | | | | | | |
| Xylenes (total) | ND | 0.0050 | " | | | | | | | |
| Gasoline Range Hydrocarbons | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0383</i> | | <i>"</i> | <i>0.0400</i> | <i>95.8</i> | <i>67.4-143</i> | | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0385</i> | | <i>"</i> | <i>0.0400</i> | <i>96.2</i> | <i>77.3-114</i> | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0406</i> | | <i>"</i> | <i>0.0400</i> | <i>101</i> | <i>78.4-125</i> | | | | |

LCS (0092111-BS1)

Prepared: 09/21/10 Analyzed: 09/22/10

| | | | | | | | | | | |
|---|---------------|--------|----------|---------------|-------------|-----------------|------|------|--|--|
| Benzene | 0.0985 | 0.0050 | mg/kg | 0.100 | 98.5 | 61-139 | 8.49 | 11.1 | | |
| Toluene | 0.0909 | 0.0050 | " | 0.100 | 90.9 | 64-132 | 8.32 | 10.9 | | |
| Ethylbenzene | 0.0944 | 0.0050 | " | 0.100 | 94.4 | 68.7-135 | 6.76 | 20 | | |
| m,p-Xylene | 0.179 | 0.010 | " | 0.200 | 89.3 | 70.4-129 | 7.41 | 20 | | |
| o-Xylene | 0.0902 | 0.0050 | " | 0.100 | 90.2 | 66.9-126 | 7.06 | 20 | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0402</i> | | <i>"</i> | <i>0.0400</i> | <i>100</i> | <i>67.4-143</i> | | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0402</i> | | <i>"</i> | <i>0.0400</i> | <i>101</i> | <i>77.3-114</i> | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0391</i> | | <i>"</i> | <i>0.0400</i> | <i>97.6</i> | <i>78.4-125</i> | | | | |

LCS Dup (0092111-BSD1)

Prepared: 09/21/10 Analyzed: 09/22/10

| | | | | | | | | | | |
|---|---------------|--------|----------|---------------|-------------|-----------------|------|------|--|--|
| Benzene | 0.107 | 0.0050 | mg/kg | 0.100 | 107 | 61-139 | 8.49 | 11.1 | | |
| Toluene | 0.0988 | 0.0050 | " | 0.100 | 98.8 | 64-132 | 8.32 | 10.9 | | |
| Ethylbenzene | 0.101 | 0.0050 | " | 0.100 | 101 | 68.7-135 | 6.76 | 20 | | |
| m,p-Xylene | 0.192 | 0.010 | " | 0.200 | 96.2 | 70.4-129 | 7.41 | 20 | | |
| o-Xylene | 0.0968 | 0.0050 | " | 0.100 | 96.8 | 66.9-126 | 7.06 | 20 | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0430</i> | | <i>"</i> | <i>0.0400</i> | <i>107</i> | <i>67.4-143</i> | | | | |
| <i>Surrogate: Toluene-d8</i> | <i>0.0405</i> | | <i>"</i> | <i>0.0400</i> | <i>101</i> | <i>77.3-114</i> | | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | <i>0.0393</i> | | <i>"</i> | <i>0.0400</i> | <i>98.3</i> | <i>78.4-125</i> | | | | |

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 0092111 - EPA 5030 Soil MS

| Matrix Spike (0092111-MS1) | | Source: R009173-01 | | | Prepared: 09/21/10 | | Analyzed: 09/22/10 | | | |
|--|--------|---------------------------|-------|--------|--------------------|------|--------------------|-------|--|------|
| Benzene | 0.0960 | 0.0050 | mg/kg | 0.100 | ND | 96.0 | 42.9-137 | | | 17.9 |
| Toluene | 0.0664 | 0.0050 | " | 0.100 | ND | 66.4 | 42.6-130 | | | 11.9 |
| Ethylbenzene | 0.0765 | 0.0050 | " | 0.100 | ND | 76.5 | 39-133 | | | 20 |
| m,p-Xylene | 0.145 | 0.010 | " | 0.200 | ND | 72.6 | 34.7-134 | | | 20 |
| o-Xylene | 0.0922 | 0.0050 | " | 0.100 | ND | 92.2 | 41.3-126 | | | 20 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0435 | | " | 0.0400 | | 109 | 67.4-143 | | | |
| Surrogate: Toluene-d8 | 0.0404 | | " | 0.0400 | | 101 | 77.3-114 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0400 | | " | 0.0400 | | 100 | 78.4-125 | | | |
| Matrix Spike Dup (0092111-MSD1) | | Source: R009173-01 | | | Prepared: 09/21/10 | | Analyzed: 09/22/10 | | | |
| Benzene | 0.0926 | 0.0050 | mg/kg | 0.100 | ND | 92.6 | 42.9-137 | 3.59 | | 17.9 |
| Toluene | 0.0630 | 0.0050 | " | 0.100 | ND | 63.0 | 42.6-130 | 5.24 | | 11.9 |
| Ethylbenzene | 0.0754 | 0.0050 | " | 0.100 | ND | 75.4 | 39-133 | 1.46 | | 20 |
| m,p-Xylene | 0.144 | 0.010 | " | 0.200 | ND | 72.2 | 34.7-134 | 0.560 | | 20 |
| o-Xylene | 0.0925 | 0.0050 | " | 0.100 | ND | 92.5 | 41.3-126 | 0.260 | | 20 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0428 | | " | 0.0400 | | 107 | 67.4-143 | | | |
| Surrogate: Toluene-d8 | 0.0400 | | " | 0.0400 | | 100 | 77.3-114 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.0391 | | " | 0.0400 | | 97.7 | 78.4-125 | | | |

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LT Environmental, Inc.
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 Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
 Project Manager: Asher Weinberg

Reported:
 10/05/10 18:34

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 0092108 - General Preparation

| | | | | | | | | | | |
|---------------------------------|---------------------------|---------|----------|--|------|--|--|-------|----|--|
| Duplicate (0092108-DUP1) | Source: R009172-01 | | | Prepared & Analyzed: 09/21/10 | | | | | | |
| Specific Conductance (EC) | 1.13 | 0.00100 | mmhos/cm | | 1.14 | | | 0.529 | 20 | |

Batch 0092109 - General Preparation

| | | | | | | | | | | |
|---------------------------------|---------------------------|--|----------|--|-----|--|--|------|----|--|
| Duplicate (0092109-DUP1) | Source: R009172-01 | | | Prepared & Analyzed: 09/21/10 | | | | | | |
| pH | 9.1 | | pH Units | | 9.3 | | | 1.96 | 20 | |

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Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

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