

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office to  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company <b>Burlington Resources Oil &amp; Gas Company</b>	Contact <b>Crystal Tafoya</b>
Address <b>3401 East 30<sup>th</sup> St, Farmington, NM</b>	Telephone No. <b>(505) 326-9837</b>
Facility Name: <b>Ute SWD 1</b>	Facility Type: <b>SWD</b>
Surface Owner <b>Tribal</b>	Mineral Owner <b>Tribal (I-22-IND-2772)</b>
API No. <b>3004511475</b>	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>M</b>	<b>11</b>	<b>32N</b>	<b>14W</b>	<b>560</b>	<b>South</b>	<b>315</b>	<b>West</b>	<b>San Juan</b>

Latitude 36.99709 Longitude 108.28589

**NATURE OF RELEASE**

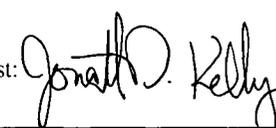
Type of Release <b>Produced Fluids</b>	Volume of Release <b>1365 yds<sup>3</sup></b>	Volume Recovered <b>None</b>
Source of Release <b>Production Tank</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>September 6, 2012</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>RCVD FEB 27 '13</b>	
By Whom?	Date and Hour	<b>OIL CONSV DIV</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\*  
N/A

Describe Cause of Problem and Remedial Action Taken.\*  
**Facility re-set Activities**

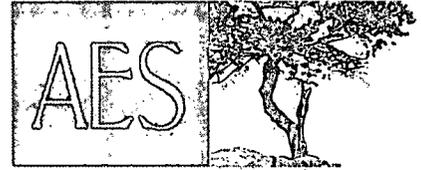
Describe Area Affected and Cleanup Action Taken.\*  
**Historical hydrocarbon impacted soil was found during a facility re-set for the subject well. The excavation was 56'x 47' x 14' and 1365 cubic yds of soil was transported to an approved landfarm and 1365 yds of clean soil was transported and placed in the excavation site. The soil sampling report is attached for review.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Crystal Tafoya</b>	Approved by Environmental Specialist: 	
Title: <b>Field Environmental Specialist</b>	Approval Date: <b>6/6/2013</b>	Expiration Date:
E-mail Address: <b>crystal.tafoya@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>2/26/2013</b> Phone: <b>(505) 326-9837</b>		

\* Attach Additional Sheets If Necessary

*njR 1315752583*



Animas Environmental Services, LLC

[www.animasenvironmental.com](http://www.animasenvironmental.com)

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

February 14, 2013

Crystal Tafoya  
ConocoPhillips  
San Juan Business Unit  
Office 214-05  
5525 Hwy 64  
Farmington, New Mexico 87401

**RE: Release Assessment and Final Excavation Report  
Ute SWD #1  
San Juan County, New Mexico**

Dear Ms. Tafoya:

On September 6, October 22, and October 25, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Ute SWD #1, located in San Juan County, New Mexico. The historical release was discovered when CoP contractors moved a production tank at the location. The initial release assessment was completed by AES on September 6, 2012. The final excavation was completed by CoP contractors prior to AES' arrival to the location on October 25, 2012.

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## 1.0 Site Information

### 1.1 Location

Location – SW¼ SW¼, Section 11, T32N, R14W, San Juan County, New Mexico

Release Latitude/Longitude – N36.99658 and W108.28753, respectively

Land Jurisdiction – Ute Mountain Ute Tribe

Figure 1 – Topographic Site Location Map

Figure 2 – Aerial Site Map, September 2012

### 1.2 Risk Ranking

At the time of the release, the Ute Mountain Ute Environmental Programs Department did not have written regulations regarding oil and gas releases. CoP was instructed to follow the release protocol of the New Mexico Oil Conservation Division (NMOCD) for oil and gas releases and also to include Resource Conservation and Recovery Act (RCRA) 8 Metals.

Prior to site work, the NMOCD database was reviewed, and a below grade tank permit application dated September 2010 reported the depth to groundwater at the location as 135 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. An unnamed ephemeral wash which drains to Little Barker Arroyo is located approximately 800 feet northeast of the location. Based on this information, the location was assessed a ranking score of 10 per the *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

### 1.3 Assessments

AES was initially contacted by Ashley Maxwell of CoP on September 4, 2012, and on September 6, 2012, Heather Woods and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 23 soil samples from 11 soil borings (SB-1 through SB-11). Based on the field screening and laboratory analytical results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On October 22, 2012, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. Based on field screening and laboratory analytical results, AES recommended further excavation of the release area. On October 25, 2012, AES returned to the location to collect additional confirmation soil samples (SC-6, SC-7, and SC-8) from the north, south, and west walls of the expanded excavation. The final excavation was approximately 56 feet by 47 feet by 14 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

---

## 2.0 Soil Sampling

A total of 23 soil samples (SB-1 through SB-11) and 8 composite samples (SC-1 through SC-8) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Five of the soil samples collected during the initial

assessment (SB-3, SB-8, SB-10, and SB-11) and five composite soil samples (SC-2, SC-3, SC-5, SC-7, and SC-8) collected during the excavation were also submitted for confirmation laboratory analysis.

## 2.1 *Field Screening*

### 2.1.1 **Volatile Organic Compounds**

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

### 2.1.2 **Total Petroleum Hydrocarbons**

Field TPH samples were analyzed per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

## 2.2 *Laboratory Analyses*

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and/or
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

Composite soil samples SC-2, SC-5, SC-7, and SC-8 were also analyzed for:

- Toxicity characteristic leaching procedure (TCLP) Resource Conservation and Recovery Act (RCRA) (8) Metals including arsenic, barium, cadmium, chromium, lead, selenium, and silver per U.S. Environmental Protection Agency (USEPA) Method 6010B, and mercury per USEPA Method 7471.

Composite samples SC-1 and SC-6 were analyzed for TCLP RCRA 8 metals only.

### 2.3 Field Screening and Laboratory Analytical Results

On September 6, 2012, initial assessment field screening readings for VOCs via OVM ranged from 28.5 ppm in SB-9 up to 4,629 ppm in SB-4. Field TPH concentrations ranged from 73.2 mg/kg in SB-3 to greater than 10,000 mg/kg in SB-1, SB-2, and SB-6.

On October 22 and October 25, 2012, final excavation field screening results for VOCs via OVM ranged from 4.5 ppm in SC-6 up to 3,502 ppm in SC-1. Field TPH concentrations ranged from 27.9 mg/kg in SC-6 to greater than 2,500 mg/kg in SC-4. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results  
 Ute SWD #1 Release Assessment and Final Excavation  
 September and October 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<i>NMOCD Action Level*</i>			100	1,000
SB-1	9/6/12	0.5' horizontal	<b>2,207</b>	<b>&gt;10,000</b>
		2' horizontal	<b>3,710</b>	NA
		3' horizontal	<b>2,294</b>	NA
		4' horizontal	<b>3,444</b>	NA
SB-2	9/6/12	1	<b>112</b>	NA
		2	<b>1,920</b>	<b>&gt;10,000</b>
		3	<b>417</b>	NA
SB-3	9/6/12	1	<b>208</b>	73.2
		2	<b>148</b>	118
		3	<b>124</b>	129
SB-4	9/6/12	0.5	<b>2,803</b>	NA
		2	<b>4,412</b>	NA
		3	<b>4,629</b>	<b>2,330</b>
SB-5	9/6/12	1	<b>4,315</b>	NA
		2	<b>950</b>	<b>1,920</b>

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>VOCs via OVM (ppm)</b>	<b>Field TPH (mg/kg)</b>
		<i>NMOCDC Action Level*</i>		<i>100</i>
		1	<b>842</b>	<b>&gt;10,000</b>
SB-6	9/6/12	2	<b>685</b>	NA
		3	<b>195</b>	NA
SB-7	9/6/12	1	42.0	90.9
SB-8	9/6/12	4	<b>1,750</b>	<b>1,070</b>
SB-9	9/6/12	0.5	28.5	282
SB-10	9/6/12	0.5	<b>215</b>	567
SB-11	9/6/12	1	<b>175</b>	178
SC-1	10/22/12	1 to 14	<b>3,502</b>	<b>1,960</b>
SC-2	10/22/12	1 to 14	<b>769</b>	419
SC-3	10/22/12	1 to 14	<b>946</b>	<b>1,010</b>
SC-4	10/22/12	1 to 14	<b>1,088</b>	<b>&gt;2,500</b>
SC-5	10/22/12	1 to 14	<b>344</b>	233
SC-6	10/25/12	1 to 14	4.5	27.9
SC-7	10/25/12	1 to 14	<b>189</b>	704
SC-8	10/25/12	1 to 14	<b>118</b>	220

NA – not analyzed

\*Action level determined by the NMOCDC ranking score per *NMOCDC Guidelines for Leaks, Spills, and Releases* (August 1993)

Laboratory analyses for SB-3, SB-8, SB-10, and SB-11 were used to confirm field screening results from the initial assessment. Benzene concentrations were reported at less than 0.050 mg/kg and less than 0.12 mg/kg. Total BTEX concentrations ranged from less than 0.25 mg/kg (SB-3) to 13 mg/kg (SB-8). The TPH concentration (as GRO/DRO) in SB-8 was reported at 420 mg/kg.

Laboratory analytical results of SC-1 through SC-8 were used to confirm field screening results during excavation activities. Benzene concentrations were reported at less than 0.12 mg/kg and 0.25 mg/kg. Total BTEX concentrations were reported below detection limits (1.12 mg/kg and 1.25 mg/kg), except in SC-3 with 1.7 mg/kg. TPH concentrations

as GRO/DRO were reported at 1,120 mg/kg in SC-3. Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH  
 Ute SWD #1 Release Assessment and Final Excavation  
 September and October 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>
<b>NMOCD Action Level*</b>			<b>10</b>	<b>50</b>	<b>1,000</b>	
SB-3	9/6/12	1	<0.050	<0.25	NA	NA
SB-8	9/6/12	4	<0.12	13	160	260
SB-10	9/6/12	0.5	<0.12	<1.12	NA	NA
SB-11	9/6/12	1	<0.12	5.9	NA	NA
SC-2	10/22/12	1 to 14	<0.25	<1.25	NA	NA
SC-3	10/22/12	1 to 14	<0.25	1.7	<b>120</b>	<b>1,000</b>
SC-5	10/22/12	1 to 14	<0.25	<1.25	NA	NA
SC-7	10/25/12	1 to 14	<0.12	<1.12	NA	NA
SC-8	10/25/12	1 to 14	<0.12	<1.12	NA	NA

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

Samples SC-1, SC-2, and SC-5 through SC-8 were laboratory analyzed for TCLP RCRA (8) metals per Ute Mountain Ute Tribe Environmental Programs Department (EPD) guidelines. Laboratory analytical results for TCLP RCRA 8 metals were reported below laboratory detection limits in each sample. Results are presented in Table 3, and laboratory analytical reports are attached.

Table 3. Laboratory Analytical Results – TCLP RCRA (8) Metals  
 Ute SWD #1 Release Assessment and Final Excavation  
 September and October 2012

Sample ID	Date Sampled	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Mercury (mg/kg)
<i>Ute Mountain Ute Standards</i>		0.39	15,000	70	120,000	400	390	390	23
SC-1	09/06/12	<5.0	<100	<1.0	<5.0	<5.0	<1.0	<5.0	<0.020
SC-2	10/22/12	<5.0	<100	<1.0	<5.0	<5.0	<1.0	<5.0	<0.020
SC-5	10/22/12	<5.0	<100	<1.0	<5.0	<5.0	<1.0	<5.0	<0.020
SC-6	10/25/12	<5.0	<100	<1.0	<5.0	<5.0	<1.0	<5.0	<0.020
SC-7	10/25/12	<5.0	<100	<1.0	<5.0	<5.0	<1.0	<5.0	<0.020
SC-8	10/25/12	<5.0	<100	<1.0	<5.0	<5.0	<1.0	<5.0	<0.020

### 3.0 Conclusions and Recommendations

On September 6, 2012, AES conducted an initial assessment associated with a historical release discovered when CoP contractors moved production tanks at the Ute SWD #1. Action levels for this release were determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking of 10. Field screening showed results above the NMOCD action level of 100 ppm VOCs in SB-1 through SB-6 and SB-8, with the highest VOC concentrations reported in SB-4 with 4,629 ppm. Field screening TPH results above the NMOCD action level of 1,000 mg/kg were reported in SB-1, SB-2, SB-4 through SB-6, and SB-8. The highest TPH concentrations were reported in SB-1, SB-2, and SB-6 with concentrations greater than 10,000 mg/kg. Laboratory analytical results from September 6, 2012, reported benzene and total BTEX concentrations below the applicable NMOCD action levels in SB-3, SB-8, SB-10, and SB-11. TPH concentrations as GRO/DRO in SB-8 were reported below the NMOCD action level with 420 mg/kg.

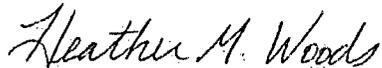
On October 22 and 25, 2012, final clearance of the excavation area was completed. Field screening results of the excavation showed that VOC concentrations exceeded the NMOCD action level of 100 ppm in three of the final walls and base of the excavation. However, laboratory analytical results from October 22 and 25, 2012, reported benzene and total BTEX concentrations below applicable NMOCD action levels in SC-2, SC-5, SC-7, and SC-8. Field TPH concentrations were reported below the NMOCD action level of

1,000 mg/kg in each of the final four walls and base of the excavation. Laboratory analytical results for TCLP RCRA 8 metals were reported below Ute Mountain Ute standards in the final four walls and base of the excavation.

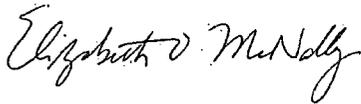
Based on the final field screening results of the excavation of petroleum contaminated soils at the Ute SWD #1, benzene, total BTEX, TPH, and TCLP RCRA 8 metal concentrations were below applicable NMOCD and Ute Mountain Ute action levels for each of the final sidewalls and base of the excavation. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,



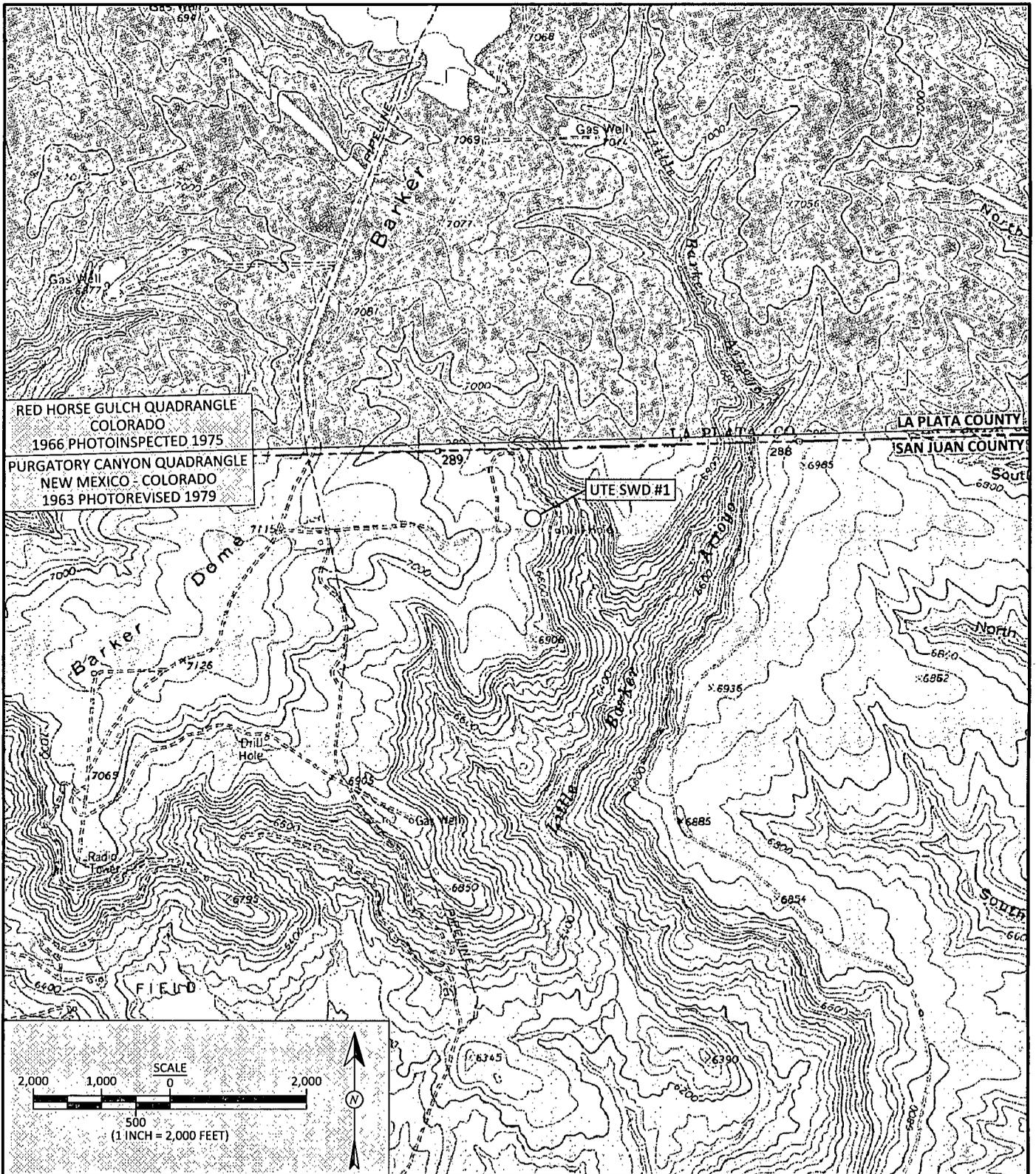
Heather M. Woods  
Staff Geologist



Elizabeth McNally, PE

**Attachments:**

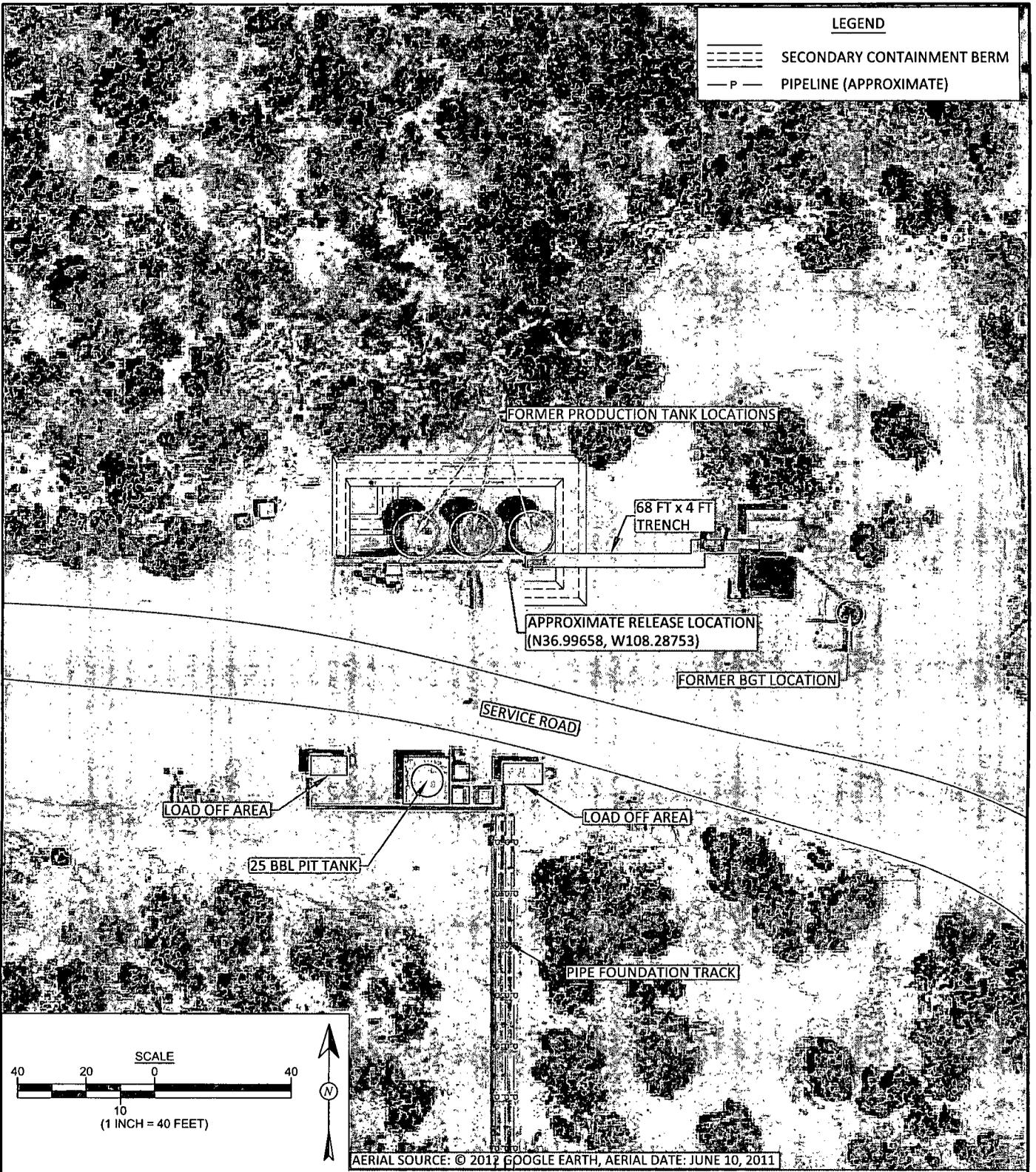
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, September 2012
- Figure 3. Initial Assessment Sample Locations and Results, September 2012
- Figure 4. Final Excavation Sample Locations and Results, October 2012
- AES Field Screening Report 090612
- AES Field Screening Report 102212
- AES Field Screening Report 102512
- Hall Laboratory Analytical Reports 1209276, 1210A32, and 1210C09



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> September 11, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> September 11, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> September 11, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> September 11, 2012

**FIGURE 1**  
**TOPOGRAPHIC SITE LOCATION MAP**  
 ConocoPhillips  
 UTE SWD #1  
 SAN JUAN COUNTY, NEW MEXICO  
 SW¼ SW¼, SECTION 11, T32N, R14W  
 N36.99658, W108.28753



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> September 11, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> February 14, 2013
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> February 14, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 14, 2013

**FIGURE 2**

**AERIAL SITE MAP  
SEPTEMBER 2012**

ConocoPhillips  
UTE SWD #1  
SAN JUAN COUNTY, NEW MEXICO  
SW¼ SW¼, SECTION 11, T32N, R14W  
N36.99658, W108.28753

**FIGURE 3**

**INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS**  
**SEPTEMBER 2012**  
 ConocoPhillips  
 UTE SWD #1  
 SAN JUAN COUNTY, NEW MEXICO  
 SW¼ SW¼, SECTION 11, T32N, R14W  
 N36.99658, W108.28753



Animas Environmental Services, LLC

**DRAWN BY:** C. Lameman  
**DATE DRAWN:** September 11, 2012

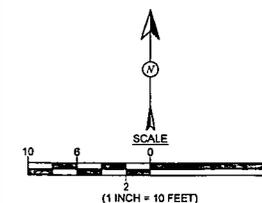
**REVISIONS BY:** C. Lameman  
**DATE REVISED:** February 14, 2013

**CHECKED BY:** D. Watson  
**DATE CHECKED:** February 14, 2013

**APPROVED BY:** E. McNally  
**DATE APPROVED:** February 14, 2013

**LEGEND**

- SAMPLE LOCATIONS
- ==== SECONDARY CONTAINMENT BERM

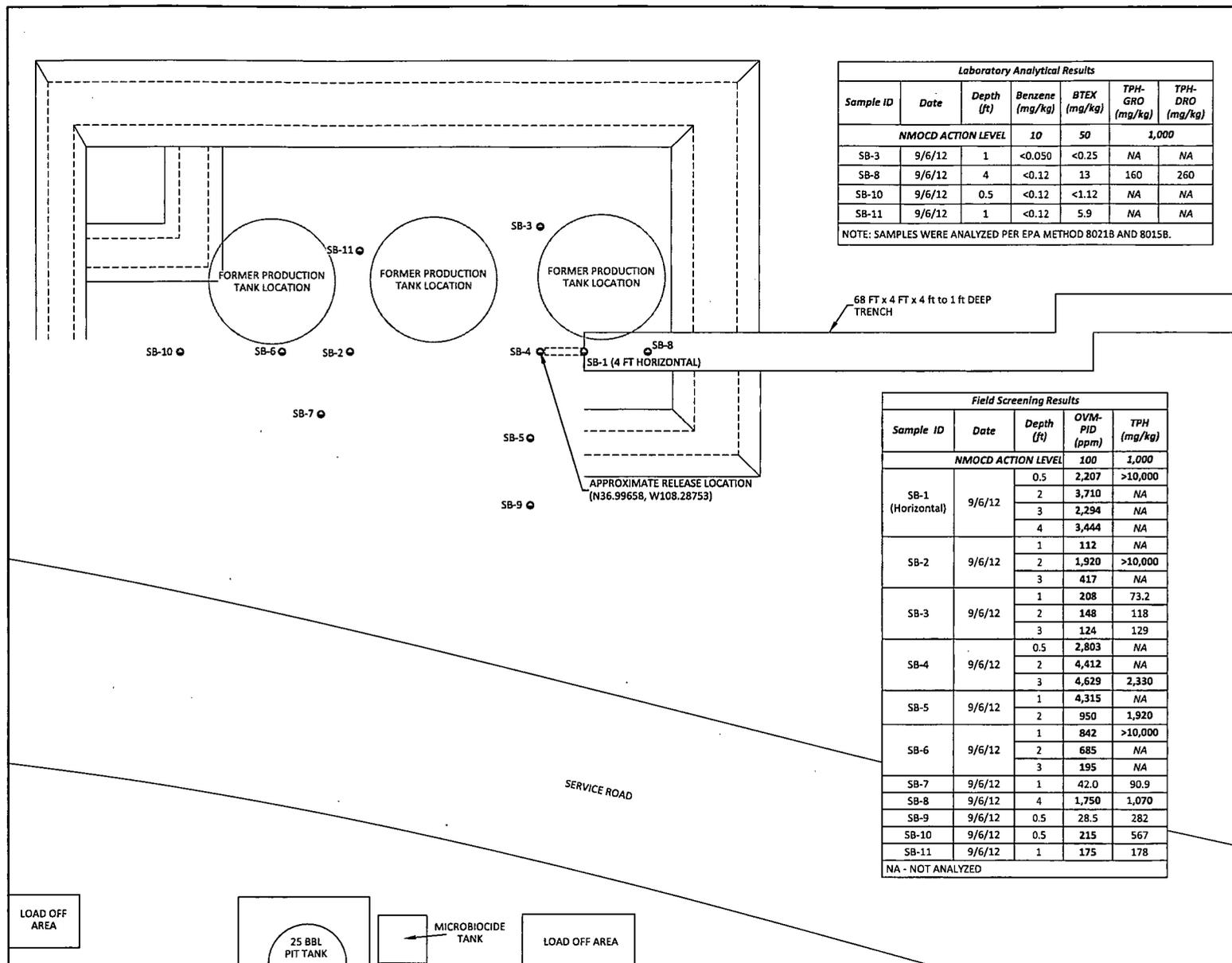


Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>10</b>	<b>50</b>	<b>1,000</b>	
SB-3	9/6/12	1	<0.050	<0.25	NA	NA
SB-8	9/6/12	4	<0.12	13	160	260
SB-10	9/6/12	0.5	<0.12	<1.12	NA	NA
SB-11	9/6/12	1	<0.12	5.9	NA	NA

NOTE: SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015B.

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>100</b>	<b>1,000</b>
SB-1 (Horizontal)	9/6/12	0.5	2,207	>10,000
		2	3,710	NA
		3	2,294	NA
		4	3,444	NA
SB-2	9/6/12	1	112	NA
		2	1,920	>10,000
		3	417	NA
SB-3	9/6/12	1	208	73.2
		2	148	118
		3	124	129
SB-4	9/6/12	0.5	2,803	NA
		2	4,412	NA
		3	4,629	2,330
SB-5	9/6/12	1	4,315	NA
		2	950	1,920
SB-6	9/6/12	1	842	>10,000
		2	685	NA
		3	195	NA
SB-7	9/6/12	1	42.0	90.9
SB-8	9/6/12	4	1,750	1,070
SB-9	9/6/12	0.5	28.5	282
SB-10	9/6/12	0.5	215	567
SB-11	9/6/12	1	175	178

NA - NOT ANALYZED



**FIGURE 4**

**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS**  
**OCTOBER 2012**  
 ConocoPhillips  
 UTE SWD #1  
 SAN JUAN COUNTY, NEW MEXICO  
 SW¼, SW¼, SECTION 11, T32N, R14W  
 N36.99658, W108.28753

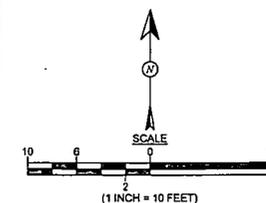


Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 3, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> February 14, 2013
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> February 14, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 14, 2013

**LEGEND**

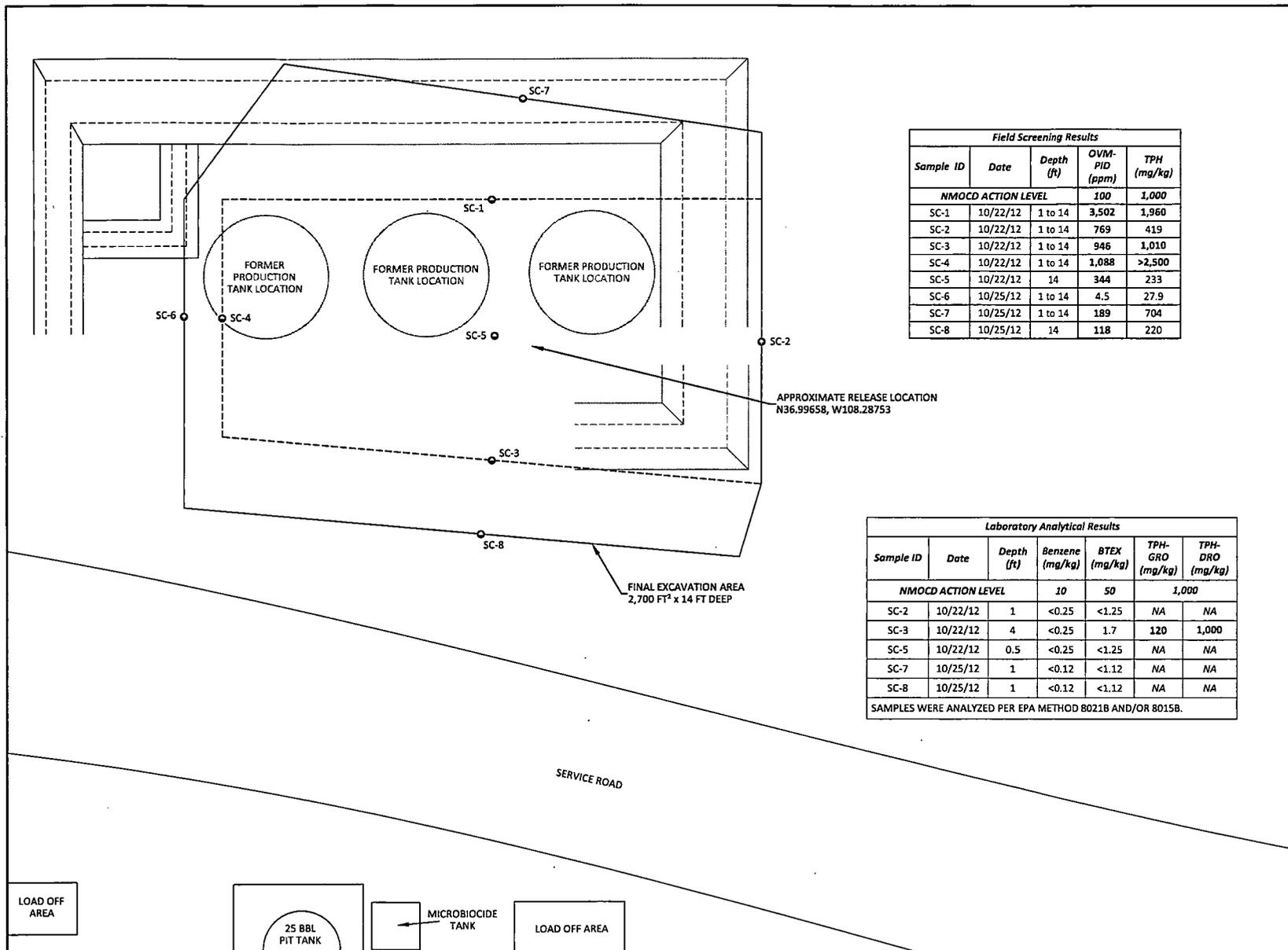
- SAMPLE LOCATIONS
- ==== SECONDARY CONTAINMENT BERM
- PREVIOUS EXCAVATION EXTENTS



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>100</b>	<b>1,000</b>
SC-1	10/22/12	1 to 14	3,502	1,960
SC-2	10/22/12	1 to 14	769	419
SC-3	10/22/12	1 to 14	946	1,010
SC-4	10/22/12	1 to 14	1,088	>2,500
SC-5	10/22/12	14	344	233
SC-6	10/25/12	1 to 14	4.5	27.9
SC-7	10/25/12	1 to 14	189	704
SC-8	10/25/12	14	118	220

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
<b>NMOC ACTION LEVEL</b>			<b>10</b>	<b>50</b>	<b>1,000</b>	
SC-2	10/22/12	1	<0.25	<1.25	NA	NA
SC-3	10/22/12	4	<0.25	1.7	120	1,000
SC-5	10/22/12	0.5	<0.25	<1.25	NA	NA
SC-7	10/25/12	1	<0.12	<1.12	NA	NA
SC-8	10/25/12	1	<0.12	<1.12	NA	NA

SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND/OR 8015B.



# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

Client: ConocoPhillips

Project Location: Ute SWD #1

Date: 9/6/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0.5' (horizontal)	9/6/2012	9:42	2,207	11:14	>10,000	100	1	HMW
SB-1 @ 2' (horizontal)	9/6/2012	9:46	3,710	<i>Not Analyzed for TPH</i>				
SB-1 @ 3' (horizontal)	9/6/2012	9:50	2,294	<i>Not Analyzed for TPH</i>				
SB-1 @ 4' (horizontal)	9/6/2012	9:54	3,444	<i>Not Analyzed for TPH</i>				
SB-2 @ 1'	9/6/2012	10:00	112	<i>Not Analyzed for TPH</i>				
SB-2 @ 2'	9/6/2012	10:05	1,920	11:18	>10,000	100	1	HMW
SB-2 @ 3'	9/6/2012	10:10	417	<i>Not Analyzed for TPH</i>				
SB-3 @ 1'	9/6/2012	10:14	208	13:12	73.2	20.0	1	HMW
SB-3 @ 2'	9/6/2012	10:18	148	11:24	118	20.0	1	HMW
SB-3 @ 3'	9/6/2012	10:22	124	11:55	129	20.0	1	HMW
SB-4 @ 0.5'	9/6/2012	10:30	2,803	<i>Not Analyzed for TPH</i>				
SB-4 @ 2'	9/6/2012	10:34	4,412	<i>Not Analyzed for TPH</i>				
SB-4 @ 3'	9/6/2012	10:37	4,629	11:16	2,330	20.0	1	HMW
SB-5 @ 1'	9/6/2012	10:40	4,315	<i>Not Analyzed for TPH</i>				
SB-5 @ 2'	9/6/2012	10:43	950	11:21	1,920	20.0	1	HMW

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-6 @ 1'	9/6/2012	10:47	842	12:01	>10,000	100	1	HMW
SB-6 @ 2'	9/6/2012	10:51	685	<i>Not Analyzed for TPH</i>				
SB-6 @ 3'	9/6/2012	10:53	195	<i>Not Analyzed for TPH</i>				
SB-7 @ 1'	9/6/2012	10:58	42.0	11:58	90.9	20.0	1	HMW
SB-8 @ 4'	9/6/2012	12:14	1,750	12:47	1,070	20.0	1	HMW
SB-9 @ 0.5'	9/6/2012	12:22	28.5	12:49	282	20.0	1	HMW
SB-10 @ 0.5'	9/6/2012	12:28	215	12:53	567	20.0	1	HMW
SB-11 @ 1'	9/6/2012	12:36	175	12:56	178	20.0	1	HMW

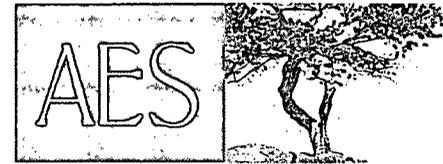
Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit  
 ND Not Detected at the Reporting Limit  
 DF Dilution Factor  
 NA Not Analyzed

Analyst:

*Heather M. Woods*

# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

Client: ConocoPhillips

Project Location: Ute SWD #1

Date: 10/22/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	10/22/2012	12:15	North Wall	3,502	13:10	1,960	20.0	1	DAW
SC-2	10/22/2012	12:20	East Wall	769	13:15	419	20.0	1	DAW
SC-3	10/22/2012	12:25	South Wall	946	13:18	1,010	20.0	1	DAW
SC-4	10/22/2012	12:28	West Wall	1,088	13:20	>2,500	20.0	1	DAW
SC-5	10/22/2012	12:30	Base	344	13:23	233	20.0	1	DAW

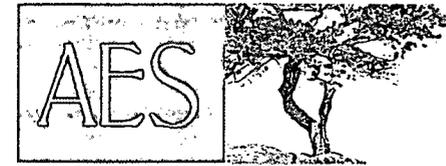
Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit  
 ND Not Detected at the Reporting Limit  
 DF Dilution Factor  
 NA Not Analyzed

Analyst:

*Debrah Water*

# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

Client: ConocoPhillips

Project Location: Ute SWD #1

Date: 10/25/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	10/25/2012	12:14	West Wall	4.5	12:55	27.9	20.0	1	HMW
SC-7	10/25/2012	12:17	North Wall	189	12:57	704	20.0	1	HMW
SC-8	10/25/2012	12:20	South Wall	118	12:59	220	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

NA Not Analyzed

Analyst:

*Leather M. Woods*



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

September 14, 2012

Debbie Watson

Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-4071  
FAX

RE: COP Ute SWD #1

OrderNo.: 1209276

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/8/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services  
**Project:** COP Ute SWD #1  
**Lab ID:** 1209276-002

**Client Sample ID:** SB-10 @ 0.5'  
**Collection Date:** 9/6/2012 12:28:00 PM  
**Received Date:** 9/8/2012 11:15:00 AM

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	9/10/2012 3:42:32 PM
Toluene	ND	0.25		mg/Kg	5	9/10/2012 3:42:32 PM
Ethylbenzene	ND	0.25		mg/Kg	5	9/10/2012 3:42:32 PM
Xylenes, Total	ND	0.50		mg/Kg	5	9/10/2012 3:42:32 PM
Surr: 4-Bromofluorobenzene	137	80-120	S	%REC	5	9/10/2012 3:42:32 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services      **Client Sample ID:** SB-11 @ 1'  
**Project:** COP Ute SWD #1      **Collection Date:** 9/6/2012 12:36:00 PM  
**Lab ID:** 1209276-003      **Matrix:** SOIL      **Received Date:** 9/8/2012 11:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	9/10/2012 4:12:53 PM
Toluene	ND	0.25		mg/Kg	5	9/10/2012 4:12:53 PM
Ethylbenzene	0.71	0.25		mg/Kg	5	9/10/2012 4:12:53 PM
Xylenes, Total	5.2	0.50		mg/Kg	5	9/10/2012 4:12:53 PM
Surr: 4-Bromofluorobenzene	113	80-120		%REC	5	9/10/2012 4:12:53 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SB-3 @ 1'

**Project:** COP Ute SWD #1

**Collection Date:** 9/6/2012 10:14:00 AM

**Lab ID:** 1209276-004

**Matrix:** SOIL

**Received Date:** 9/8/2012 11:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	9/10/2012 2:42:00 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2012 2:42:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2012 2:42:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2012 2:42:00 PM
Surr: 4-Bromofluorobenzene	93.5	80-120		%REC	1	9/10/2012 2:42:00 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services  
**Project:** COP Ute SWD #1  
**Lab ID:** 1209276-005

**Client Sample ID:** SC-1  
**Collection Date:** 9/6/2012 2:22:00 PM  
**Received Date:** 9/8/2012 11:15:00 AM

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>MERCURY, TCLP</b>						Analyst: JLF
Mercury	ND	0.020		mg/L	1	9/13/2012 9:21:06 AM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: JLF
Arsenic	ND	5.0		mg/L	1	9/14/2012 1:45:00 PM
Barium	ND	100		mg/L	5	9/14/2012 1:50:17 PM
Cadmium	ND	1.0		mg/L	1	9/14/2012 1:45:00 PM
Chromium	ND	5.0		mg/L	1	9/14/2012 1:45:00 PM
Lead	ND	5.0		mg/L	1	9/14/2012 1:45:00 PM
Selenium	ND	1.0		mg/L	1	9/14/2012 1:45:00 PM
Silver	ND	5.0		mg/L	1	9/14/2012 1:45:00 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

Client: Animas Environmental Services

Project: COP Ute SWD #1

Sample ID	MB-3669	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	3669	RunNo:	5402					
Prep Date:	9/10/2012	Analysis Date:	9/10/2012	SeqNo:	154019	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		111	77.6	140			

Sample ID	LCS-3669	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	3669	RunNo:	5402					
Prep Date:	9/10/2012	Analysis Date:	9/10/2012	SeqNo:	154022	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	71.9	52.6	130			
Surr: DNOP	4.4		5.000		88.3	77.6	140			

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

Client: Animas Environmental Services

Project: COP Ute SWD #1

Sample ID: 1209273-004ADUP	SampType: DUP	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: BatchQC	Batch ID: R5410	RunNo: 5410								
Prep Date:	Analysis Date: 9/10/2012	SeqNo: 154803			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	120	5.0						4.49	21	
Surr: BFB	1700		2000		83.0	43.1	185	0	0	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

**Client:** Animas Environmental Services

**Project:** COP Ute SWD #1

Sample ID: <b>5ML RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R5410</b>	RunNo: <b>5410</b>								
Prep Date:	Analysis Date: <b>9/10/2012</b>	SeqNo: <b>154807</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.6	84	116			

Sample ID: <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R5410</b>	RunNo: <b>5410</b>								
Prep Date:	Analysis Date: <b>9/10/2012</b>	SeqNo: <b>154808</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.0	74	117			
Surr: BFB	880		1000		87.6	84	116			

Sample ID: <b>1209278-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>R5410</b>	RunNo: <b>5410</b>								
Prep Date:	Analysis Date: <b>9/10/2012</b>	SeqNo: <b>154810</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	19.14	2.021	96.3	70	130			
Surr: BFB	760		765.7		98.9	84	116			

Sample ID: <b>1209278-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>R5410</b>	RunNo: <b>5410</b>								
Prep Date:	Analysis Date: <b>9/10/2012</b>	SeqNo: <b>154811</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	19.14	2.021	93.8	70	130	2.39	22.1	
Surr: BFB	800		765.7		105	84	116	0	0	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

Client: Animas Environmental Services

Project: COP Ute SWD #1

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015B: Gasoline Range</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>R5410</b>	RunNo:	<b>5410</b>					
Prep Date:		Analysis Date:	<b>9/10/2012</b>	SeqNo:	<b>154800</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		93.6	69.8	119			

Sample ID	<b>2.5UG GRO LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015B: Gasoline Range</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>R5410</b>	RunNo:	<b>5410</b>					
Prep Date:		Analysis Date:	<b>9/10/2012</b>	SeqNo:	<b>154801</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.45	0.050	0.5000	0	90.0	75.9	119			
Surr: BFB	18		20.00		87.6	69.8	119			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276  
14-Sep-12

**Client:** Animas Environmental Services  
**Project:** COP Ute SWD #1

Sample ID	1209273-004ADUP	SampType:	DUP	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154817	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.49	0.10						2.89	105	
Toluene	0.12	0.10						3.41	34	
Ethylbenzene	ND	0.10						0	22.1	
Xylenes, Total	ND	0.30						0	21.9	
Surr: 4-Bromofluorobenzene	1.9		2.000		94.8	66.1	135	0	0	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

**Client:** Animas Environmental Services  
**Project:** COP Ute SWD #1

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R5410</b>	RunNo:	<b>5410</b>					
Prep Date:		Analysis Date:	<b>9/10/2012</b>	SeqNo:	<b>154818</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R5410</b>	RunNo:	<b>5410</b>					
Prep Date:		Analysis Date:	<b>9/10/2012</b>	SeqNo:	<b>154819</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	76.3	117			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	115	77	116			
Xylenes, Total	3.5	0.10	3.000	0	116	76.7	117			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	80	120			S

Sample ID	<b>1209276-004AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SB-3 @ 1'</b>	Batch ID:	<b>R5410</b>	RunNo:	<b>5410</b>					
Prep Date:		Analysis Date:	<b>9/10/2012</b>	SeqNo:	<b>154820</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.050	0.7900	0	97.9	67.2	113			
Toluene	0.82	0.050	0.7900	0.007268	102	62.1	116			
Ethylbenzene	0.84	0.050	0.7900	0.01114	104	67.9	127			
Xylenes, Total	2.6	0.10	2.370	0.06834	107	60.6	134			
Surr: 4-Bromofluorobenzene	0.96		0.7900		121	80	120			S

Sample ID	<b>1209276-004AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SB-3 @ 1'</b>	Batch ID:	<b>R5410</b>	RunNo:	<b>5410</b>					
Prep Date:		Analysis Date:	<b>9/10/2012</b>	SeqNo:	<b>154821</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.050	0.7900	0	95.8	67.2	113	2.17	14.3	
Toluene	0.79	0.050	0.7900	0.007268	99.6	62.1	116	2.86	15.9	
Ethylbenzene	0.81	0.050	0.7900	0.01114	101	67.9	127	2.70	14.4	
Xylenes, Total	2.5	0.10	2.370	0.06834	104	60.6	134	3.19	12.6	
Surr: 4-Bromofluorobenzene	0.88		0.7900		112	80	120	0	0	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

**Client:** Animas Environmental Services

**Project:** COP Ute SWD #1

Sample ID: <b>5ML RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R5410</b>	RunNo: <b>5410</b>								
Prep Date:	Analysis Date: <b>9/10/2012</b>	SeqNo: <b>154814</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	21		20.00		107	69.7	152			

Sample ID: <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R5410</b>	RunNo: <b>5410</b>								
Prep Date:	Analysis Date: <b>9/10/2012</b>	SeqNo: <b>154815</b>	Units: <b>µg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	80	120			
Toluene	23	1.0	20.00	0	113	80	120			
Ethylbenzene	23	1.0	20.00	0	115	80	120			
Xylenes, Total	69	2.0	60.00	0	116	80	120			
1,2,4-Trimethylbenzene	23	1.0	20.00	0	113	74.3	117			
1,3,5-Trimethylbenzene	23	1.0	20.00	0	117	75.8	117			S
Surr: 4-Bromofluorobenzene	24		20.00		122	69.7	152			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

**Client:** Animas Environmental Services

**Project:** COP Ute SWD #1

Sample ID	<b>MB-3727</b>	SampType:	<b>MBLK</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>3727</b>	RunNo:	<b>5491</b>					
Prep Date:	<b>9/12/2012</b>	Analysis Date:	<b>9/13/2012</b>	SeqNo:	<b>156920</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	<b>LCS-3727</b>	SampType:	<b>LCS</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>3727</b>	RunNo:	<b>5491</b>					
Prep Date:	<b>9/12/2012</b>	Analysis Date:	<b>9/13/2012</b>	SeqNo:	<b>156921</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	102	80	120			

Sample ID	<b>1209276-005AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>SC-1</b>	Batch ID:	<b>3727</b>	RunNo:	<b>5491</b>					
Prep Date:	<b>9/12/2012</b>	Analysis Date:	<b>9/13/2012</b>	SeqNo:	<b>156924</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	90.4	75	125			

Sample ID	<b>1209276-005AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>SC-1</b>	Batch ID:	<b>3727</b>	RunNo:	<b>5491</b>					
Prep Date:	<b>9/12/2012</b>	Analysis Date:	<b>9/13/2012</b>	SeqNo:	<b>156925</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	91.0	75	125	0	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1209276

14-Sep-12

Client: Animas Environmental Services

Project: COP Ute SWD #1

Sample ID	1209198-001AMS	SampType:	MS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	3740	RunNo:	5534					
Prep Date:	9/13/2012	Analysis Date:	9/14/2012	SeqNo:	158309	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	107	75	125			
Cadmium	ND	1.0	0.5000	0	108	75	125			
Chromium	ND	5.0	0.5000	0	99.3	75	125			
Lead	ND	5.0	0.5000	0.002600	103	75	125			

Sample ID	1209198-001AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	3740	RunNo:	5534					
Prep Date:	9/13/2012	Analysis Date:	9/14/2012	SeqNo:	158310	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	109	75	125	0	20	
Cadmium	ND	1.0	0.5000	0	108	75	125	0	20	
Chromium	ND	5.0	0.5000	0	99.7	75	125	0	20	
Lead	ND	5.0	0.5000	0.002600	104	75	125	0	20	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87106  
 TEL: 505-345-3975 FAX: 505-345-4101  
 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1209276  
 Received by/date: AF 09/08/12  
 Logged By: Anne Thorne 9/8/2012 11:15:00 AM Anne Thorne  
 Completed By: Anne Thorne 9/10/2012 Anne Thorne  
 Reviewed By: mg 09/10/12

**Chain of Custody**

- 1. Were seals intact? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Coolers are present? (see 19. for cooler specific information) Yes  No  NA
- 5. Was an attempt made to cool the samples? Yes  No  NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 7. Sample(s) in proper container(s)? Yes  No
- 8. Sufficient sample volume for indicated test(s)? Yes  No
- 9. Are samples (except VOA and ONG) properly preserved? Yes  No
- 10. Was preservative added to bottles? Yes  No  NA
- 11. VOA vials have zero headspace? Yes  No  No VOA Vials
- 12. Were any sample containers received broken? Yes  No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- 14. Are matrices correctly identified on Chain of Custody? Yes  No
- 15. Is it clear what analyses were requested? Yes  No
- 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

- 17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

**19. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

# Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche  
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:

Standard  Rush Same Day

Project Name:

COP Ute SWD #1

Project #:

Project Manager:

D. Watson

Sampler: H. Woods

On Ice:  Yes  No

Sample Temperature: 22°C

Container Type and #

Preservative Type

BEAL No  
269276

Date Time Matrix Sample Request ID

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	BEAL No	BTEX + MTBE + TPH (Gas/Diesel)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals TCLP	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
9/6/12	1214	Soil	SB-8@4'	MeOH Kit / 4oz Jar	MeOH / NA	-001	X	X										
9/6/12	1228	Soil	SB-10@0.5'	MeOH Kit / 4oz Jar	MeOH / NA	-002	X											
9/6/12	1236	Soil	SB-11@1'	MeOH Kit / 4oz Jar	MeOH / NA	-003	X											
9/6/12	1014	Soil	SB-3@1'	MeOH Kit / 4oz Jar	MeOH / NA	-004	X											
9/6/12	1422	Soil	SC-1	2 4oz Jars	NA	-005							X					

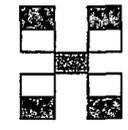
Date: 9/7/12 Time: 1555 Relinquished by: Heather M. Woods

Received by: Christine Waters Date: 9/7/12 Time: 1555

Date: 9/7/12 Time: 1621 Relinquished by: Christine Waters

Received by: [Signature] Date: 9/8/12 Time: 11:15

Remarks: Bill to Conoco Phillips



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 02, 2012

Debbie Watson  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-4071  
FAX:

RE: CoP Ute SWD #1

OrderNo.: 1210A32

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/23/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a thin horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-2

**Project:** CoP Ute SWD #1

**Collection Date:** 10/22/2012 12:20:00 PM

**Lab ID:** 1210A32-001

**Matrix:** MEOH (SOIL)

**Received Date:** 10/23/2012 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.25		mg/Kg	5	10/23/2012 11:55:24 PM
Toluene	ND	0.25		mg/Kg	5	10/23/2012 11:55:24 PM
Ethylbenzene	ND	0.25		mg/Kg	5	10/23/2012 11:55:24 PM
Xylenes, Total	ND	0.50		mg/Kg	5	10/23/2012 11:55:24 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	5	10/23/2012 11:55:24 PM
<b>MERCURY, TCLP</b>						Analyst: <b>IDC</b>
Mercury	ND	0.020		mg/L	1	10/30/2012 4:33:11 PM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: <b>ELS</b>
Arsenic	ND	5.0		mg/L	1	10/29/2012 12:50:33 PM
Barium	ND	100		mg/L	5	10/29/2012 12:58:54 PM
Cadmium	ND	1.0		mg/L	1	10/29/2012 12:50:33 PM
Chromium	ND	5.0		mg/L	1	10/29/2012 12:50:33 PM
Lead	ND	5.0		mg/L	1	10/29/2012 12:50:33 PM
Selenium	ND	1.0		mg/L	1	10/29/2012 12:50:33 PM
Silver	ND	5.0		mg/L	1	10/29/2012 12:50:33 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services      **Client Sample ID:** SC-3  
**Project:** CoP Ute SWD #1      **Collection Date:** 10/22/2012 12:25:00 PM  
**Lab ID:** 1210A32-002      **Matrix:** MEOH (SOIL)      **Received Date:** 10/23/2012 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	1000		10	mg/Kg	1	10/23/2012 2:04:51 PM
Surr: DNOP	95.6	77.6-140		%REC	1	10/23/2012 2:04:51 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	120		25	mg/Kg	5	10/24/2012 12:24:12 AM
Surr: BFB	383	84-116	S	%REC	5	10/24/2012 12:24:12 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND		0.25	mg/Kg	5	10/24/2012 12:24:12 AM
Toluene	ND		0.25	mg/Kg	5	10/24/2012 12:24:12 AM
Ethylbenzene	ND		0.25	mg/Kg	5	10/24/2012 12:24:12 AM
Xylenes, Total	1.7		0.50	mg/Kg	5	10/24/2012 12:24:12 AM
Surr: 4-Bromofluorobenzene	114	80-120		%REC	5	10/24/2012 12:24:12 AM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report  
 Lab Order 1210A32  
 Date Reported: 11/2/2012

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-5

**Project:** CoP Ute SWD #1

**Collection Date:** 10/22/2012 12:30:00 PM

**Lab ID:** 1210A32-003

**Matrix:** MEOH (SOIL)

**Received Date:** 10/23/2012 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.25		mg/Kg	5	10/23/2012 11:26:45 PM
Toluene	ND	0.25		mg/Kg	5	10/23/2012 11:26:45 PM
Ethylbenzene	ND	0.25		mg/Kg	5	10/23/2012 11:26:45 PM
Xylenes, Total	ND	0.50		mg/Kg	5	10/23/2012 11:26:45 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	5	10/23/2012 11:26:45 PM
<b>MERCURY, TCLP</b>						Analyst: <b>IDC</b>
Mercury	ND	0.020		mg/L	1	10/30/2012 4:34:56 PM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: <b>ELS</b>
Arsenic	ND	5.0		mg/L	1	10/29/2012 1:17:35 PM
Barium	ND	100		mg/L	5	10/29/2012 1:20:33 PM
Cadmium	ND	1.0		mg/L	1	10/29/2012 1:17:35 PM
Chromium	ND	5.0		mg/L	1	10/29/2012 1:17:35 PM
Lead	ND	5.0		mg/L	1	10/29/2012 1:17:35 PM
Selenium	ND	1.0		mg/L	1	10/29/2012 1:17:35 PM
Silver	ND	5.0		mg/L	1	10/29/2012 1:17:35 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A32

02-Nov-12

**Client:** Animas Environmental Services

**Project:** CoP Ute SWD #1

Sample ID: <b>MB-4462</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>4462</b>	RunNo: <b>6424</b>								
Prep Date: <b>10/22/2012</b>	Analysis Date: <b>10/23/2012</b>	SeqNo: <b>184656</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.8		10.00		98.4	77.6	140			

Sample ID: <b>LCS-4462</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>4462</b>	RunNo: <b>6424</b>								
Prep Date: <b>10/22/2012</b>	Analysis Date: <b>10/23/2012</b>	SeqNo: <b>184657</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.5	52.6	130			
Surr: DNOP	4.5		5.000		89.9	77.6	140			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A32

02-Nov-12

**Client:** Animas Environmental Services

**Project:** CoP Ute SWD #1

Sample ID: <b>5ML RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R6438</b>	RunNo: <b>6438</b>								
Prep Date:	Analysis Date: <b>10/23/2012</b>	SeqNo: <b>185196</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.0	84	116			

Sample ID: <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R6438</b>	RunNo: <b>6438</b>								
Prep Date:	Analysis Date: <b>10/23/2012</b>	SeqNo: <b>185197</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	78.6	74	117			
Surr: BFB	850		1000		84.5	84	116			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1210A32  
 02-Nov-12

**Client:** Animas Environmental Services  
**Project:** CoP Ute SWD #1

Sample ID: <b>5ML RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R6438</b>	RunNo: <b>6438</b>								
Prep Date:	Analysis Date: <b>10/23/2012</b>	SeqNo: <b>185253</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R6438</b>	RunNo: <b>6438</b>								
Prep Date:	Analysis Date: <b>10/23/2012</b>	SeqNo: <b>185254</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.3	117			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	77	116			
Xylenes, Total	3.2	0.10	3.000	0	105	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: <b>LCS-4403</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>4403</b>	RunNo: <b>6438</b>								
Prep Date: <b>10/18/2012</b>	Analysis Date: <b>10/24/2012</b>	SeqNo: <b>185273</b>			Units: <b>%REC</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**QC SUMMARY REPORT**  
**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1210A32  
 02-Nov-12

**Client:** Animas Environmental Services  
**Project:** CoP Ute SWD #1

Sample ID: <b>MB-4584</b>	SampType: <b>mblk</b>	TestCode: <b>MERCURY, TCLP</b>								
Client ID: <b>PBW</b>	Batch ID: <b>4584</b>	RunNo: <b>6576</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/30/2012</b>	SeqNo: <b>189737</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID: <b>LCS-4584</b>	SampType: <b>lcs</b>	TestCode: <b>MERCURY, TCLP</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>4584</b>	RunNo: <b>6576</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/30/2012</b>	SeqNo: <b>189738</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	104	80	120			

Sample ID: <b>1210C09-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>MERCURY, TCLP</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>4584</b>	RunNo: <b>6576</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/30/2012</b>	SeqNo: <b>189755</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	86.1	75	125			

Sample ID: <b>1210C09-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>MERCURY, TCLP</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>4584</b>	RunNo: <b>6576</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/30/2012</b>	SeqNo: <b>189756</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	85.8	75	125	0	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A32

02-Nov-12

**Client:** Animas Environmental Services

**Project:** CoP Ute SWD #1

Sample ID: <b>MB-4549</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>4549</b>	RunNo: <b>6546</b>								
Prep Date: <b>10/28/2012</b>	Analysis Date: <b>10/29/2012</b>	SeqNo: <b>188996</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0								
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								

Sample ID: <b>LCS-4549</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>4549</b>	RunNo: <b>6546</b>								
Prep Date: <b>10/28/2012</b>	Analysis Date: <b>10/29/2012</b>	SeqNo: <b>188997</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	116	80	120			
Barium	ND	100	0.5000	0	97.7	80	120			
Cadmium	ND	1.0	0.5000	0	106	80	120			
Chromium	ND	5.0	0.5000	0	97.0	80	120			
Lead	ND	5.0	0.5000	0	97.7	80	120			
Selenium	ND	1.0	0.5000	0	124	80	120			S
Silver	ND	5.0	0.1000	0	105	80	120			

Sample ID: <b>1210A32-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>SC-2</b>	Batch ID: <b>4549</b>	RunNo: <b>6546</b>								
Prep Date: <b>10/28/2012</b>	Analysis Date: <b>10/29/2012</b>	SeqNo: <b>188999</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0.01688	109	75	125			
Cadmium	ND	1.0	0.5000	0	103	75	125			
Chromium	ND	5.0	0.5000	0	92.3	75	125			
Lead	ND	5.0	0.5000	0.002700	91.3	75	125			
Selenium	ND	1.0	0.5000	0	109	75	125			
Silver	ND	5.0	0.1000	0	104	75	125			

Sample ID: <b>1210A32-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>SC-2</b>	Batch ID: <b>4549</b>	RunNo: <b>6546</b>								
Prep Date: <b>10/28/2012</b>	Analysis Date: <b>10/29/2012</b>	SeqNo: <b>189000</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0.01688	105	75	125	0	20	
Cadmium	ND	1.0	0.5000	0	102	75	125	0	20	
Chromium	ND	5.0	0.5000	0	91.5	75	125	0	20	
Lead	ND	5.0	0.5000	0.002700	91.1	75	125	0	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210A32

02-Nov-12

**Client:** Animas Environmental Services

**Project:** CoP Ute SWD #1

Sample ID: <b>1210A32-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>SC-2</b>	Batch ID: <b>4549</b>	RunNo: <b>6546</b>								
Prep Date: <b>10/28/2012</b>	Analysis Date: <b>10/29/2012</b>	SeqNo: <b>189000</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	1.0	0.5000	0	105	75	125	0	20	
Silver	ND	5.0	0.1000	0	104	75	125	0	20	

Sample ID: <b>1210A32-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>SC-2</b>	Batch ID: <b>4549</b>	RunNo: <b>6546</b>								
Prep Date: <b>10/28/2012</b>	Analysis Date: <b>10/29/2012</b>	SeqNo: <b>189004</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	100	0.5000	3.638	95.9	75	125			

Sample ID: <b>1210A32-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>SC-2</b>	Batch ID: <b>4549</b>	RunNo: <b>6546</b>								
Prep Date: <b>10/28/2012</b>	Analysis Date: <b>10/29/2012</b>	SeqNo: <b>189005</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	100	0.5000	3.638	89.2	75	125	0	20	

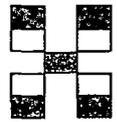
**Qualifiers:**

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



# Chain-of-Custody Record

Turn-Around Time:  
 Standard  Rush Same day  
 Project Name:  
CoP Ute SWD # 1  
 Project #:



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Animas Environmental Services LLC  
 Mailing Address: 624 E Comanche Farmington NM 87401  
 Phone #: 505 564 2281  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation  
 NELAP  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Project Manager:  
D. Watson  
 Sampler: D. Watson  
 Office:  Yes  No  
 Sample Temperature: \_\_\_\_\_

## Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + (8021)	BTEX + MTBE + TPH (Gas only) <u>Stop/No</u>	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals <u>TCLP Pesticide</u>	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
10-22-12	1220	soil	SC-2	1 MeOH kit 2-4oz	MeOH <u>no</u>	-001	X						X					
0-22-12	1225	soil	SC-3	1 MeOH kit 2-4oz	MeOH <u>no</u>	-002	X	X										
10-22-12	1230	soil	SC-5	1 MeOH kit 2-4oz	MeOH <u>no</u>	-003	X						X					

Date: 10/22/12 Time: 1657 Relinquished by: Debrah Water  
 Received by: Christine Wheeler Date: 10/22/12 Time: 1657  
 Date: 10/22/12 Time: 1728 Relinquished by: Christine Wheeler  
 Received by: [Signature] Date: 10/23/12 Time: 1015

Remarks: Call to Conroy Phillip  
wo: 9190894  
Area: 1  
act code: D150  
supervisor: Kerdel Parris  
ordered by: Eric Smith  
DW added TCLP  
Rush EQA 8

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

10/22



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 20, 2012

Debbie Watson  
Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-4071  
FAX

RE: COP Ute SWD #1

OrderNo.: 1210C09

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/26/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: COP Ute SWD #1

Collection Date: 10/25/2012 12:14:00 PM

Lab ID: 1210C09-001

Matrix: SOIL

Received Date: 10/26/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>MERCURY, TCLP</b>						Analyst: IDC
Mercury	ND	0.020		mg/L	1	10/30/2012 4:57:47 PM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: JLF
Arsenic	ND	5.0		mg/L	1	10/31/2012 11:46:51 AM
Barium	ND	100		mg/L	1	10/31/2012 11:46:51 AM
Cadmium	ND	1.0		mg/L	1	10/31/2012 11:46:51 AM
Chromium	ND	5.0		mg/L	1	10/31/2012 11:46:51 AM
Lead	ND	5.0		mg/L	1	10/31/2012 11:46:51 AM
Selenium	ND	1.0		mg/L	1	10/31/2012 11:46:51 AM
Silver	ND	5.0		mg/L	1	10/31/2012 11:46:51 AM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-7

**Project:** COP Ute SWD #1

**Collection Date:** 10/25/2012 12:17:00 PM

**Lab ID:** 1210C09-002

**Matrix:** MEOH (SOIL)

**Received Date:** 10/26/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	10/26/2012 2:07:56 PM
Toluene	ND	0.25		mg/Kg	5	10/26/2012 2:07:56 PM
Ethylbenzene	ND	0.25		mg/Kg	5	10/26/2012 2:07:56 PM
Xylenes, Total	ND	0.50		mg/Kg	5	10/26/2012 2:07:56 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	5	10/26/2012 2:07:56 PM
<b>MERCURY, TCLP</b>						Analyst: <b>IDC</b>
Mercury	ND	0.020		mg/L	1	11/14/2012 1:00:04 PM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: <b>JLF</b>
Arsenic	ND	5.0		mg/L	1	11/2/2012 1:56:19 PM
Barium	ND	100		mg/L	1	11/2/2012 1:56:19 PM
Cadmium	ND	1.0		mg/L	1	11/2/2012 1:56:19 PM
Chromium	ND	5.0		mg/L	1	11/2/2012 1:56:19 PM
Lead	ND	5.0		mg/L	1	11/2/2012 1:56:19 PM
Selenium	ND	1.0		mg/L	1	11/2/2012 1:56:19 PM
Silver	ND	5.0		mg/L	1	11/2/2012 1:56:19 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services **Client Sample ID:** SC-8  
**Project:** COP Ute SWD #1 **Collection Date:** 10/25/2012 12:20:00 PM  
**Lab ID:** 1210C09-003 **Matrix:** MEOH (SOIL) **Received Date:** 10/26/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	10/26/2012 1:10:21 PM
Toluene	ND	0.25		mg/Kg	5	10/26/2012 1:10:21 PM
Ethylbenzene	ND	0.25		mg/Kg	5	10/26/2012 1:10:21 PM
Xylenes, Total	ND	0.50		mg/Kg	5	10/26/2012 1:10:21 PM
Surr: 4-Bromofluorobenzene	103	80-120		%REC	5	10/26/2012 1:10:21 PM
<b>MERCURY, TCLP</b>						Analyst: <b>IDC</b>
Mercury	ND	0.020		mg/L	1	11/14/2012 1:01:52 PM
<b>EPA METHOD 6010B: TCLP METALS</b>						Analyst: <b>JLF</b>
Arsenic	ND	5.0		mg/L	1	11/2/2012 1:59:14 PM
Barium	ND	100		mg/L	5	11/2/2012 2:25:40 PM
Cadmium	ND	1.0		mg/L	1	11/2/2012 1:59:14 PM
Chromium	ND	5.0		mg/L	1	11/2/2012 1:59:14 PM
Lead	ND	5.0		mg/L	1	11/2/2012 1:59:14 PM
Selenium	ND	1.0		mg/L	1	11/2/2012 1:59:14 PM
Silver *	ND	5.0		mg/L	1	11/2/2012 1:59:14 PM

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C09

20-Nov-12

Client: Animas Environmental Services

Project: COP Ute SWD #1

Sample ID	<b>MB-4447</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>4447</b>	RunNo:	<b>6512</b>					
Prep Date:	<b>10/22/2012</b>	Analysis Date:	<b>10/26/2012</b>	SeqNo:	<b>188018</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	<b>LCS-4447</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>4447</b>	RunNo:	<b>6512</b>					
Prep Date:	<b>10/22/2012</b>	Analysis Date:	<b>10/26/2012</b>	SeqNo:	<b>188019</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	76.3	117			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	77	116			
Xylenes, Total	3.3	0.10	3.000	0	110	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID	<b>1210970-002AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>4447</b>	RunNo:	<b>6512</b>					
Prep Date:	<b>10/22/2012</b>	Analysis Date:	<b>10/26/2012</b>	SeqNo:	<b>188025</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.048	0.9699	0.008249	97.8	67.2	113			
Toluene	0.95	0.048	0.9699	0	98.3	62.1	116			
Ethylbenzene	0.97	0.048	0.9699	0	100	67.9	127			
Xylenes, Total	3.0	0.097	2.910	0.02729	101	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9699		110	80	120			

Sample ID	<b>1210970-002AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>4447</b>	RunNo:	<b>6512</b>					
Prep Date:	<b>10/22/2012</b>	Analysis Date:	<b>10/26/2012</b>	SeqNo:	<b>188026</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.048	0.9634	0.008249	95.5	67.2	113	3.10	14.3	
Toluene	0.92	0.048	0.9634	0	95.9	62.1	116	3.07	15.9	
Ethylbenzene	0.95	0.048	0.9634	0	98.2	67.9	127	2.59	14.4	
Xylenes, Total	2.9	0.096	2.890	0.02729	98.7	60.6	134	2.74	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9634		111	80	120	0	0	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C09

20-Nov-12

**Client:** Animas Environmental Services

**Project:** COP Ute SWD #1

Sample ID	<b>MB-4584</b>	SampType:	<b>mblk</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>4584</b>	RunNo:	<b>6576</b>					
Prep Date:	<b>10/30/2012</b>	Analysis Date:	<b>10/30/2012</b>	SeqNo:	<b>189737</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	<b>LCS-4584</b>	SampType:	<b>lcs</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>4584</b>	RunNo:	<b>6576</b>					
Prep Date:	<b>10/30/2012</b>	Analysis Date:	<b>10/30/2012</b>	SeqNo:	<b>189738</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	104	80	120			

Sample ID	<b>1210C09-001AMS</b>	SampType:	<b>ms</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>SC-6</b>	Batch ID:	<b>4584</b>	RunNo:	<b>6576</b>					
Prep Date:	<b>10/30/2012</b>	Analysis Date:	<b>10/30/2012</b>	SeqNo:	<b>189755</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	86.1	75	125			

Sample ID	<b>1210C09-001AMSD</b>	SampType:	<b>msd</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>SC-6</b>	Batch ID:	<b>4584</b>	RunNo:	<b>6576</b>					
Prep Date:	<b>10/30/2012</b>	Analysis Date:	<b>10/30/2012</b>	SeqNo:	<b>189756</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	85.8	75	125	0	20	

Sample ID	<b>MB-4800</b>	SampType:	<b>MBLK</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>PBW</b>	Batch ID:	<b>4800</b>	RunNo:	<b>6925</b>					
Prep Date:	<b>11/13/2012</b>	Analysis Date:	<b>11/14/2012</b>	SeqNo:	<b>200355</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	<b>LCS-4800</b>	SampType:	<b>LCS</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>LCSW</b>	Batch ID:	<b>4800</b>	RunNo:	<b>6925</b>					
Prep Date:	<b>11/13/2012</b>	Analysis Date:	<b>11/14/2012</b>	SeqNo:	<b>200356</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	100	80	120			

Sample ID	<b>1211391-001CMS</b>	SampType:	<b>MS</b>	TestCode:	<b>MERCURY, TCLP</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>4800</b>	RunNo:	<b>6925</b>					
Prep Date:	<b>11/13/2012</b>	Analysis Date:	<b>11/14/2012</b>	SeqNo:	<b>200361</b>	Units:	<b>mg/L</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	99.2	75	125			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C09

20-Nov-12

Client: Animas Environmental Services

Project: COP Ute SWD #1

Sample ID	1211391-001CMSD	SampType	MSD	TestCode	MERCURY, TCLP					
Client ID	BatchQC	Batch ID	4800	RunNo	6925					
Prep Date	11/13/2012	Analysis Date	11/14/2012	SeqNo	200362	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	98.9	75	125	0	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C09

20-Nov-12

**Client:** Animas Environmental Services  
**Project:** COP Ute SWD #1

Sample ID <b>MB-4577</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>PBW</b>	Batch ID: <b>4577</b>	RunNo: <b>6598</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/31/2012</b>	SeqNo: <b>190645</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0								
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								

Sample ID <b>LCS-4577</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>4577</b>	RunNo: <b>6598</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/31/2012</b>	SeqNo: <b>190646</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	113	80	120			
Barium	ND	100	0.5000	0	101	80	120			
Cadmium	ND	1.0	0.5000	0	106	80	120			
Chromium	ND	5.0	0.5000	0	100	80	120			
Lead	ND	5.0	0.5000	0	101	80	120			
Selenium	ND	1.0	0.5000	0	114	80	120			
Silver	ND	5.0	0.1000	0	107	80	120			

Sample ID <b>1210C00-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>4577</b>	RunNo: <b>6598</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/31/2012</b>	SeqNo: <b>190649</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0.1840	112	75	125			
Cadmium	ND	1.0	0.5000	0	106	75	125			
Chromium	ND	5.0	0.5000	0.006900	100	75	125			
Lead	ND	5.0	0.5000	0	97.8	75	125			
Selenium	ND	1.0	0.5000	0	105	75	125			
Silver	ND	5.0	0.1000	0.0006000	109	75	125			

Sample ID <b>1210C00-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 6010B: TCLP Metals</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>4577</b>	RunNo: <b>6598</b>								
Prep Date: <b>10/30/2012</b>	Analysis Date: <b>10/31/2012</b>	SeqNo: <b>190653</b>			Units: <b>mg/L</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0.1840	112	75	125	0	20	
Cadmium	ND	1.0	0.5000	0	104	75	125	0	20	
Chromium	ND	5.0	0.5000	0.006900	98.4	75	125	0	20	
Lead	ND	5.0	0.5000	0	96.7	75	125	0	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C09

20-Nov-12

**Client:** Animas Environmental Services

**Project:** COP Ute SWD #1

Sample ID	1210C00-001AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	4577	RunNo:	6598					
Prep Date:	10/30/2012	Analysis Date:	10/31/2012	SeqNo:	190653	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	1.0	0.5000	0	101	75	125	0	20	
Silver	ND	5.0	0.1000	0.0006000	109	75	125	0	20	

Sample ID	MB-4642	SampType:	MBLK	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	PBW	Batch ID:	4642	RunNo:	6663					
Prep Date:	11/2/2012	Analysis Date:	11/2/2012	SeqNo:	192320	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0								
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								

Sample ID	LCS-4642	SampType:	LCS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	LCSW	Batch ID:	4642	RunNo:	6663					
Prep Date:	11/2/2012	Analysis Date:	11/2/2012	SeqNo:	192321	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	113	80	120			
Barium	ND	100	0.5000	0	99.8	80	120			
Cadmium	ND	1.0	0.5000	0	106	80	120			
Chromium	ND	5.0	0.5000	0	99.4	80	120			
Lead	ND	5.0	0.5000	0	101	80	120			
Selenium	ND	1.0	0.5000	0	123	80	120			S
Silver	ND	5.0	0.1000	0	107	80	120			

Sample ID	1210C09-003AMS	SampType:	MS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	SC-8	Batch ID:	4642	RunNo:	6663					
Prep Date:	11/2/2012	Analysis Date:	11/2/2012	SeqNo:	192326	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	111	75	125			
Cadmium	ND	1.0	0.5000	0.001210	104	75	125			
Chromium	ND	5.0	0.5000	0	94.6	75	125			
Lead	ND	5.0	0.5000	0	94.6	75	125			
Selenium	ND	1.0	0.5000	0	112	75	125			
Silver	ND	5.0	0.1000	0	106	75	125			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1210C09

20-Nov-12

**Client:** Animas Environmental Services

**Project:** COP Ute SWD #1

Sample ID: 1210C09-003AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: SC-8	Batch ID: 4642	RunNo: 6663								
Prep Date: 11/2/2012	Analysis Date: 11/2/2012	SeqNo: 192327 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	107	75	125	0	20	
Cadmium	ND	1.0	0.5000	0.001210	103	75	125	0	20	
Chromium	ND	5.0	0.5000	0	93.7	75	125	0	20	
Lead	ND	5.0	0.5000	0	93.8	75	125	0	20	
Selenium	ND	1.0	0.5000	0	110	75	125	0	20	
Silver	ND	5.0	0.1000	0	106	75	125	0	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**Sample Log-In Check List**

Client Name: **Animas Environmental** Work Order Number: **1210C09**  
 Received by/date: *[Signature]* **10/26/12**  
 Logged By: **Ashley Gallegos** 10/26/2012 9:55:00 AM *[Signature]*  
 Completed By: **Ashley Gallegos** 10/26/2012 10:08:25 AM *[Signature]*  
 Reviewed By: *mg* **10/26/12**

**Chain of Custody**

- 1. Were seals intact? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Coolers are present? (see 19. for cooler specific information) Yes  No  NA
  - 5. Was an attempt made to cool the samples? Yes  No  NA
  - 6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
  - 7. Sample(s) in proper container(s)? Yes  No
  - 8. Sufficient sample volume for indicated test(s)? Yes  No
  - 9. Are samples (except VOA and ONG) properly preserved? Yes  No
  - 10. Was preservative added to bottles? Yes  No  NA
  - 11. VOA vials have zero headspace? Yes  No  No VOA Vials
  - 12. Were any sample containers received broken? Yes  No
  - 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
  - 14. Are matrices correctly identified on Chain of Custody? Yes  No
  - 15. Is it clear what analyses were requested? Yes  No
  - 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No
- # of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

- 17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

**19. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

# Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche

Farmington, NM 87401

Phone #: 505-564-2201

email or Fax#:

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:

Standard  Rush Same Day / ASAP

Project Name:

CoP Vte SWD #1

Project #:

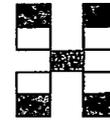
Project Manager:

D. Watson

Sampler: H. Woods

On Ice:  Yes  No

Sample Temperature: \_\_\_\_\_



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TPB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
10/25/12	1214	Soil	SC-6	2 4oz jars	None	-001							X					
10/25/12	1217	Soil	SC-7	MeOH KH / 2 4oz	MeOH / None	-002	X											
10/25/12	1220	Soil	SC-B	MeOH KH / 2 4oz	MeOH / None	-003	X											

Date: 10/25/12 Time: 1642 Relinquished by: Heather M. Woods Received by: Christina Walker Date: 10/25/12 Time: 1642

Date: 10/25/12 Time: 1721 Relinquished by: Christina Walker Received by: [Signature] Date: 10/21/12 Time: 0955

Remarks: Bill to ConocoPhillips  
WO: 9190894  
 Area: 1  
 Activity Code: D150  
 Supervisor: Kendal Basing  
 Ordered by: Eric Smith  
 \* If Benzene is less than 10 mg/kg and BTEX is less than 50 mg/kg for SC-7 and SC-B, please run TCLP RCRA metals.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.