

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

LOCATION OF RELEASE

Unit Letter M	Section 11	Township 32N	Range 14W	Feet from the 560	North/South Line South	Feet from the 315	East/West Line West	County San Juan
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Latitude **36.99709** Longitude **108.28589**

NATURE OF RELEASE


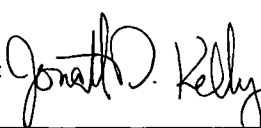
Type of Release Produced Fluids	Volume of Release 1365 yds3	Volume Recovered None
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery September 6, 2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD FEB 27 '13	
By Whom?	Date and Hour OIL CONS DIV	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 3	

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

* Attach Additional Sheets If Necessary

NSR 1315752583



Animas Environmental Services, LLC

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.

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	2,207	>10,000
		2' horizontal	3,710	NA
		3' horizontal	2,294	NA
		4' horizontal	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

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
<i>NMOCD Action Level*</i>			100	1,000
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
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	1 to 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	1 to 14	118	220

NA – not analyzed

*Action level determined by the NMOCD ranking score per *NMOCD 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>
NMOCD Action Level*			10	50	1,000	
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	120	1,000
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.

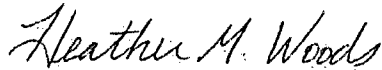
On October 22 and 25, 2012, final clearance of the excavation area was completed. Field screening results of the excavation showed that VOC concentrations exceeded the NMOCD action level of 100 ppm in three of the final walls and base of the excavation. However, laboratory analytical results from October 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.

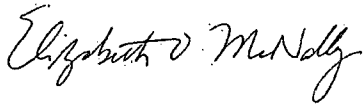
Based on the final field screening results of the excavation of petroleum contaminated soils at the Ute SWD #1, benzene, total BTEX, TPH, and TCLP RCRA 8 metal concentrations were below applicable NMOCD and Ute Mountain Ute action levels for each of the final sidewalls and base of the excavation. No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



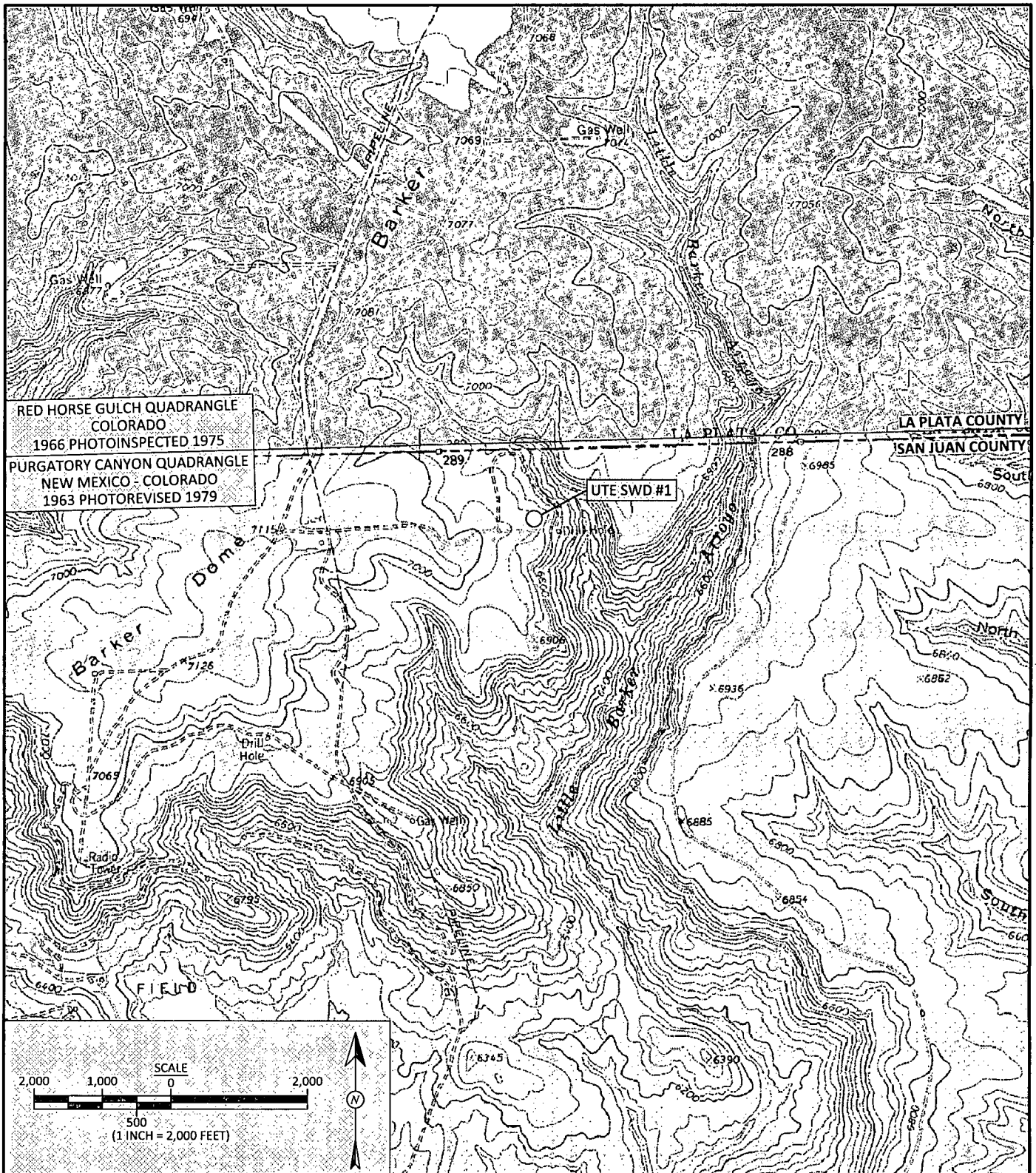
Heather M. Woods
Staff Geologist



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

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

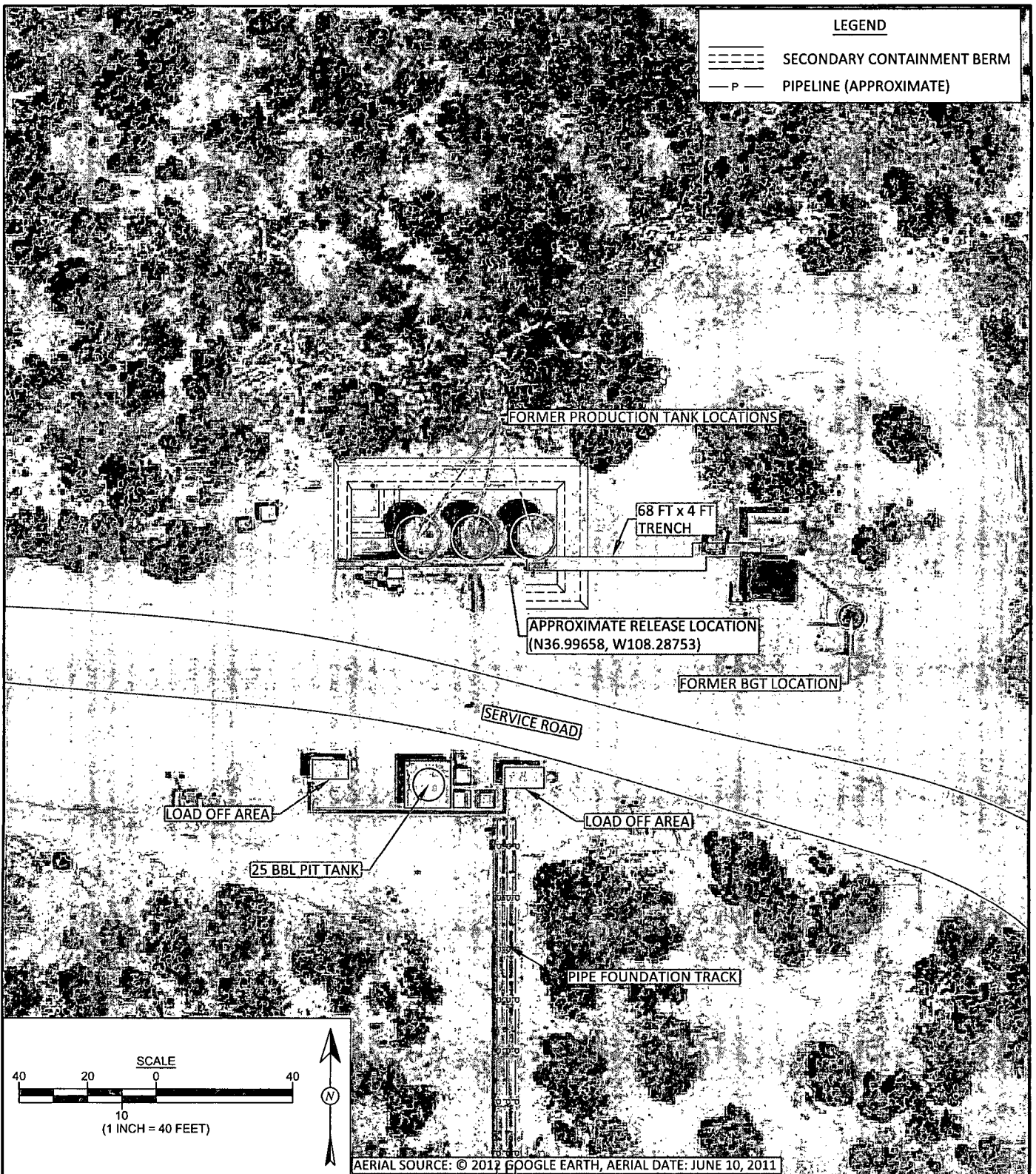


FIGURE 2

AERIAL SITE MAP SEPTEMBER 2012

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



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

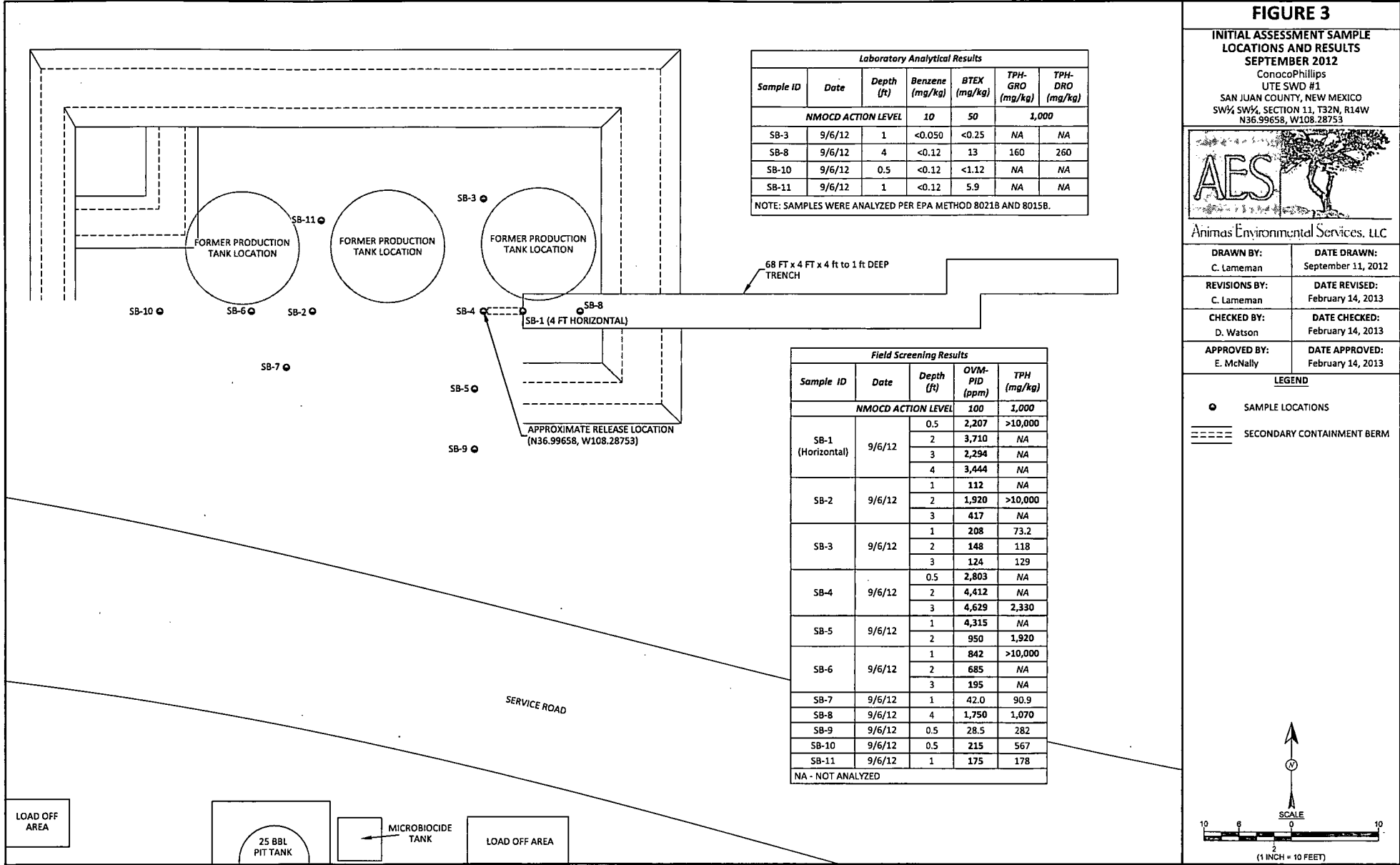


FIGURE 3

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

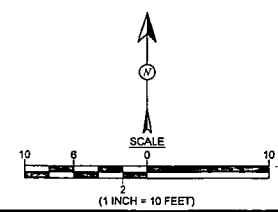


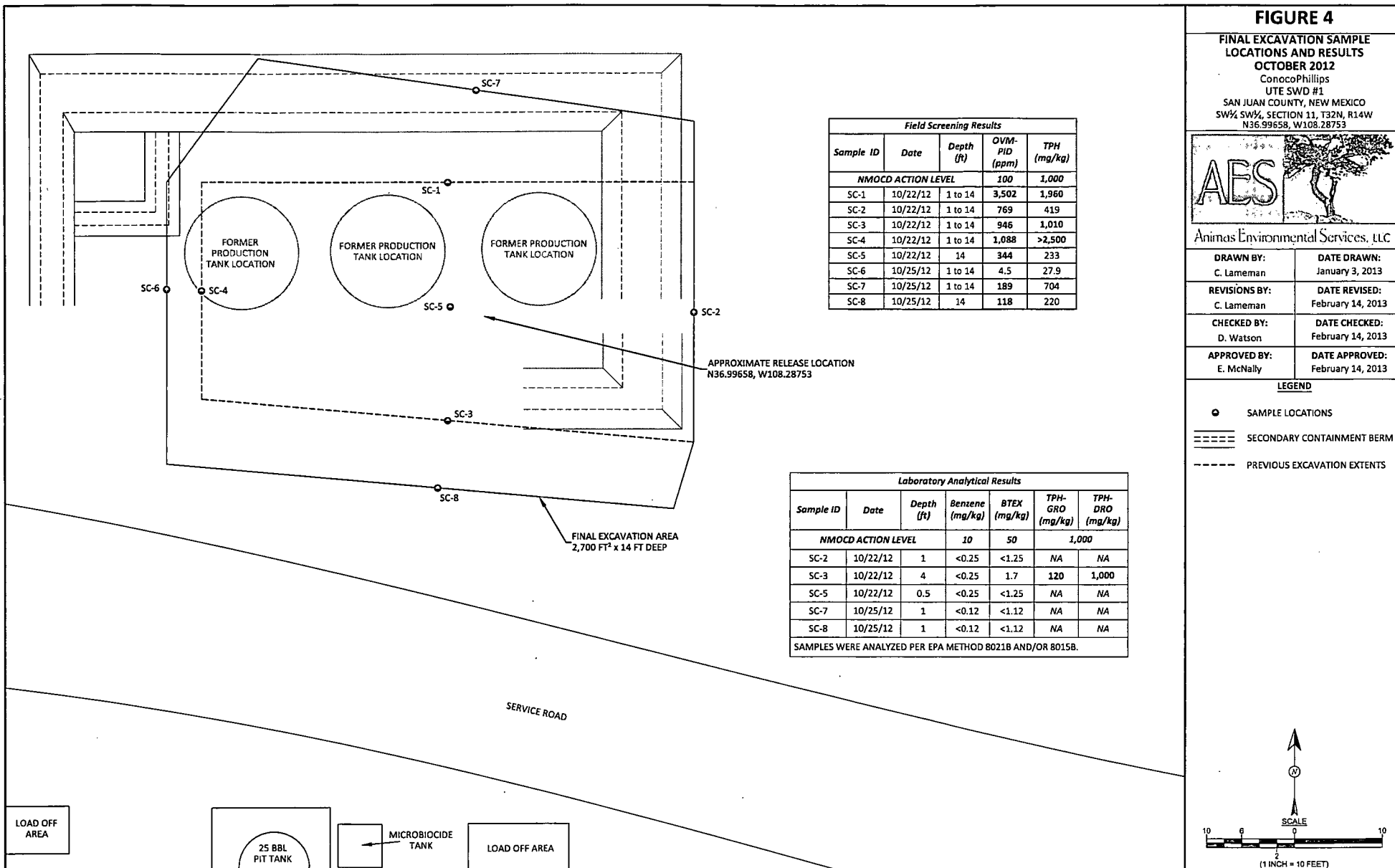
Animas Environmental Services, LLC

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





AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Ute SWD #1

Date: 9/6/2012

Matrix: Soil

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

Durango, Colorado
970-403-3084

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	Not Analyzed for TPH				
SB-1 @ 3' (horizontal)	9/6/2012	9:50	2,294	Not Analyzed for TPH				
SB-1 @ 4' (horizontal)	9/6/2012	9:54	3,444	Not Analyzed for TPH				
SB-2 @ 1'	9/6/2012	10:00	112	Not Analyzed for TPH				
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	Not Analyzed for TPH				
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	Not Analyzed for TPH				
SB-4 @ 2'	9/6/2012	10:34	4,412	Not Analyzed for TPH				
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	Not Analyzed for TPH				
SB-5 @ 2'	9/6/2012	10:43	950	11:21	1,920	20.0	1	HMW

Ute SWD #1

Page 1

Report Finalized: 09/06/12

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	Not Analyzed for TPH				
SB-6 @ 3'	9/6/2012	10:53	195	Not Analyzed for TPH				
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

Client: ConocoPhillips

Project Location: Ute SWD #1

Date: 10/22/2012

Matrix: Soil

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

Durango, Colorado
970-403-3084

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 Wata

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*

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 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: SB-8 @ 4'

Project: COP Ute SWD #1

Collection Date: 9/6/2012 12:14:00 PM

Lab ID: 1209276-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	260	97		mg/Kg	10	9/10/2012 12:27:57 PM
Surr: DNOP	0	77.6-140	S	%REC	10	9/10/2012 12:27:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	160	25		mg/Kg	5	9/10/2012 3:12:18 PM
Surr: BFB	200	84-116	S	%REC	5	9/10/2012 3:12:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	9/10/2012 3:12:18 PM
Toluene	0.83	0.25		mg/Kg	5	9/10/2012 3:12:18 PM
Ethylbenzene	0.61	0.25		mg/Kg	5	9/10/2012 3:12:18 PM
Xylenes, Total	12	0.50		mg/Kg	5	9/10/2012 3:12:18 PM
Surr: 4-Bromofluorobenzene	112	80-120		%REC	5	9/10/2012 3:12:18 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery 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, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SB-10 @ 0.5'

Project: COP Ute SWD #1

Collection Date: 9/6/2012 12:28:00 PM

Lab ID: 1209276-002

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery 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, 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
EPA METHOD 8021B: VOLATILES						Analyst: NSB
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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery 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, Inc.

Analytical Report

Lab Order 1209276

Date Reported: 9/14/2012

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
EPA METHOD 8021B: VOLATILES						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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery 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, Inc.

Analytical Report

Lab Order 1209276

Date Reported: 9/14/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: COP Ute SWD #1

Collection Date: 9/6/2012 2:22:00 PM

Lab ID: 1209276-005

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
MERCURY, TCLP						Analyst: JLF
Mercury	ND	0.020		mg/L	1	9/13/2012 9:21:06 AM
EPA METHOD 6010B: TCLP METALS						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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery 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	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	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154807	Units:	mg/Kg			
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	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154808	Units:	mg/Kg			
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	1209278-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154810	Units:	mg/Kg			
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	1209278-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154811	Units:	mg/Kg			
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	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBW	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154800	Units:	mg/L			
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	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSW	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154801	Units:	mg/L			
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	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154818	Units:	mg/Kg			
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	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154819	Units:	mg/Kg			
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	1209276-004AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SB-3 @ 1'	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154820	Units:	mg/Kg			
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	1209276-004AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SB-3 @ 1'	Batch ID:	R5410	RunNo:	5410					
Prep Date:		Analysis Date:	9/10/2012	SeqNo:	154821	Units:	mg/Kg			
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: 5ML RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBW	Batch ID: R5410	RunNo: 5410								
Prep Date:	Analysis Date: 9/10/2012	SeqNo: 154814	Units: µg/L							
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: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSW	Batch ID: R5410	RunNo: 5410								
Prep Date:	Analysis Date: 9/10/2012	SeqNo: 154815	Units: µg/L							
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	MB-3727	SampType	MBLK	TestCode	MERCURY, TCLP					
Client ID	PBW	Batch ID	3727	RunNo	5491					
Prep Date	9/12/2012	Analysis Date	9/13/2012	SeqNo	156920	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	LCS-3727	SampType	LCS	TestCode	MERCURY, TCLP					
Client ID	LCSW	Batch ID	3727	RunNo	5491					
Prep Date	9/12/2012	Analysis Date	9/13/2012	SeqNo	156921	Units	mg/L			
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	1209276-005AMS	SampType	MS	TestCode	MERCURY, TCLP					
Client ID	SC-1	Batch ID	3727	RunNo	5491					
Prep Date	9/12/2012	Analysis Date	9/13/2012	SeqNo	156924	Units	mg/L			
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	1209276-005AMSD	SampType	MSD	TestCode	MERCURY, TCLP					
Client ID	SC-1	Batch ID	3727	RunNo	5491					
Prep Date	9/12/2012	Analysis Date	9/13/2012	SeqNo	156925	Units	mg/L			
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

Am Th

Completed By: Anne Thorne 9/10/2012

Am Th

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 $>0^{\circ}\text{C}$ 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)

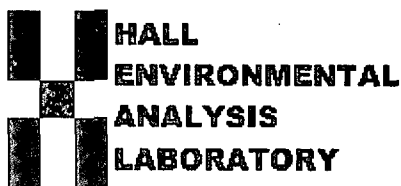
17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: 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 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-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
EPA METHOD 8021B: VOLATILES						Analyst: NSB
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
MERCURY, TCLP						Analyst: IDC
Mercury	ND	0.020		mg/L	1	10/30/2012 4:33:11 PM
EPA METHOD 6010B: TCLP METALS						Analyst: ELS
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
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
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
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
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
EPA METHOD 8021B: VOLATILES						Analyst: NSB
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.
- 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.

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
EPA METHOD 8021B: VOLATILES						Analyst: NSB
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
MERCURY, TCLP						Analyst: IDC
Mercury	ND	0.020		mg/L	1	10/30/2012 4:34:56 PM
EPA METHOD 6010B: TCLP METALS						Analyst: ELS
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: MB-4462	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 4462	RunNo: 6424								
Prep Date: 10/22/2012	Analysis Date: 10/23/2012	SeqNo: 184656	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	9.8		10.00		98.4	77.6	140			

Sample ID: LCS-4462	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 4462	RunNo: 6424								
Prep Date: 10/22/2012	Analysis Date: 10/23/2012	SeqNo: 184657	Units: mg/Kg							
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: 5ML RB	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: R6438	RunNo: 6438								
Prep Date:	Analysis Date: 10/23/2012	SeqNo: 185196	Units: mg/Kg							
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: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: R6438	RunNo: 6438								
Prep Date:	Analysis Date: 10/23/2012	SeqNo: 185197	Units: mg/Kg							
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. | 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#: 1210A32

02-Nov-12

Client: Animas Environmental Services

Project: CoP Ute SWD #1

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R6438	RunNo: 6438								
Prep Date:	Analysis Date: 10/23/2012	SeqNo: 185253	Units: mg/Kg							
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: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R6438	RunNo: 6438								
Prep Date:	Analysis Date: 10/23/2012	SeqNo: 185254	Units: mg/Kg							
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: LCS-4403	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 4403	RunNo: 6438								
Prep Date: 10/18/2012	Analysis Date: 10/24/2012	SeqNo: 185273	Units: %REC							
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. | 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#: 1210A32

02-Nov-12

Client: Animas Environmental Services

Project: CoP Ute SWD #1

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

Sample ID: LCS-4584	SampType: lcs	TestCode: MERCURY, TCLP
Client ID: LCSW	Batch ID: 4584	RunNo: 6576
Prep Date: 10/30/2012	Analysis Date: 10/30/2012	SeqNo: 189738 Units: mg/L
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: 1210C09-001AMS	SampType: ms	TestCode: MERCURY, TCLP
Client ID: BatchQC	Batch ID: 4584	RunNo: 6576
Prep Date: 10/30/2012	Analysis Date: 10/30/2012	SeqNo: 189755 Units: mg/L
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: 1210C09-001AMSD	SampType: msd	TestCode: MERCURY, TCLP
Client ID: BatchQC	Batch ID: 4584	RunNo: 6576
Prep Date: 10/30/2012	Analysis Date: 10/30/2012	SeqNo: 189756 Units: mg/L
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. | 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#: 1210A32

02-Nov-12

Client: Animas Environmental Services

Project: CoP Ute SWD #1

Sample ID: MB-4549	SampType: MBLK	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: PBW	Batch ID: 4549	RunNo: 6546								
Prep Date: 10/28/2012	Analysis Date: 10/29/2012	SeqNo: 188996	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-4549	SampType: LCS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: LCSW	Batch ID: 4549	RunNo: 6546								
Prep Date: 10/28/2012	Analysis Date: 10/29/2012	SeqNo: 188997	Units: mg/L							
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: 1210A32-001AMS	SampType: MS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: SC-2	Batch ID: 4549	RunNo: 6546								
Prep Date: 10/28/2012	Analysis Date: 10/29/2012	SeqNo: 188999	Units: mg/L							
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: 1210A32-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: SC-2	Batch ID: 4549	RunNo: 6546								
Prep Date: 10/28/2012	Analysis Date: 10/29/2012	SeqNo: 189000	Units: mg/L							
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: 1210A32-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: SC-2	Batch ID: 4549	RunNo: 6546								
Prep Date: 10/28/2012	Analysis Date: 10/29/2012	SeqNo: 189000 Units: mg/L								
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: 1210A32-001AMS	SampType: MS	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: SC-2	Batch ID: 4549	RunNo: 6546								
Prep Date: 10/28/2012	Analysis Date: 10/29/2012	SeqNo: 189004 Units: mg/L								
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: 1210A32-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: TCLP Metals								
Client ID: SC-2	Batch ID: 4549	RunNo: 6546								
Prep Date: 10/28/2012	Analysis Date: 10/29/2012	SeqNo: 189005 Units: mg/L								
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:

- * 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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-410
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1210A32
Received by/date:	ACI 10/23/12		
Logged By:	Michelle Garcia	10/23/2012 10:15:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	10/23/2012 10:32:37 AM	Michelle Garcia
Reviewed By:	[Signature]	10/23/12	

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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Turn-Around Time:

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)

☐ Standard ☒ Rush Same day

Project Name: CoP Ute SWD #1

Project #:	
------------	--

Project Manager:
D. Watson

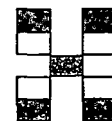
Sampler: D Wakon

On Ice ☒ Yes ☐ No

Sample Temperature			

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
10/22/12	1657	Debrah Water	Christine Weller	10/22/12	1657	Call to Conroy Phillips wo: 9190894 Area 1 act code: D150 supervisor: Kendal Parris
Date:	Time:	Relinquished by:	Received by:	Date	Time	
10/22/12	1738	Christine Weller	Christine Weller	10/23/12	1015	ordered by: Eric Smith DW added TLRP push ECR 8



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

		X	X	X	BTEX + MTBE (8021)
					BTEX + MTBE + TPH (Gas only)
					<i>S&P DIO</i> TPH Method 8015B (Gas/Diesel))
					TPH (Method 418.1)
					EDB (Method 504.1)
					8310 (PNA or PAH)
		X	X		RCRA 8 Metals <i>TCLP P & HSE</i>
					Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)
					8081 Pesticides / 8082 PCB's
					8260B (VOA)
					8270 (Semi-VOA)
					8270
					Air Bubbles (Y or N)

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 notated on the analytical report.

port. ~~AT~~ 10/23



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: 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 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
MERCURY, TCLP						Analyst: IDC
Mercury	ND	0.020		mg/L	1	10/30/2012 4:57:47 PM
EPA METHOD 6010B: TCLP METALS						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.

Analytical Report

Lab Order 1210C09

Date Reported: 11/20/2012

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
EPA METHOD 8021B: VOLATILES						Analyst: NSB
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
MERCURY, TCLP						Analyst: IDC
Mercury	ND	0.020		mg/L	1	11/14/2012 1:00:04 PM
EPA METHOD 6010B: TCLP METALS						Analyst: JLF
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.

Analytical Report

Lab Order 1210C09

Date Reported: 11/20/2012

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
EPA METHOD 8021B: VOLATILES						Analyst: NSB
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
MERCURY, TCLP						Analyst: IDC
Mercury	ND	0.020		mg/L	1	11/14/2012 1:01:52 PM
EPA METHOD 6010B: TCLP METALS						Analyst: JLF
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.
- 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#: 1210C09

20-Nov-12

Client: Animas Environmental Services

Project: COP Ute SWD #1

Sample ID	MB-4447		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	4447		RunNo:	6512			
Prep Date:	10/22/2012		Analysis Date:	10/26/2012		SeqNo:	188018		Units: mg/Kg	
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	LCS-4447		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	4447		RunNo:	6512			
Prep Date:	10/22/2012		Analysis Date:	10/26/2012		SeqNo:	188019		Units: mg/Kg	
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	1210970-002AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	4447		RunNo:	6512			
Prep Date:	10/22/2012		Analysis Date:	10/26/2012		SeqNo:	188025		Units: mg/Kg	
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	1210970-002AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	4447		RunNo:	6512			
Prep Date:	10/22/2012		Analysis Date:	10/26/2012		SeqNo:	188026		Units: mg/Kg	
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	MB-4584		SampType: mblk	TestCode: MERCURY, TCLP	
Client ID:	PBW		Batch ID: 4584	RunNo: 6576	
Prep Date:	10/30/2012		Analysis Date: 10/30/2012	SeqNo: 189737	Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND	0.020			

Sample ID	LCS-4584		SampType: lcs	TestCode: MERCURY, TCLP	
Client ID:	LCSW		Batch ID: 4584	RunNo: 6576	
Prep Date:	10/30/2012		Analysis Date: 10/30/2012	SeqNo: 189738	Units: mg/L
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	1210C09-001AMS		SampType: ms	TestCode: MERCURY, TCLP	
Client ID:	SC-6		Batch ID: 4584	RunNo: 6576	
Prep Date:	10/30/2012		Analysis Date: 10/30/2012	SeqNo: 189755	Units: mg/L
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	1210C09-001AMSD		SampType: msd	TestCode: MERCURY, TCLP	
Client ID:	SC-6		Batch ID: 4584	RunNo: 6576	
Prep Date:	10/30/2012		Analysis Date: 10/30/2012	SeqNo: 189756	Units: mg/L
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	MB-4800		SampType: MBLK	TestCode: MERCURY, TCLP	
Client ID:	PBW		Batch ID: 4800	RunNo: 6925	
Prep Date:	11/13/2012		Analysis Date: 11/14/2012	SeqNo: 200355	Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Mercury	ND	0.020			

Sample ID	LCS-4800		SampType: LCS	TestCode: MERCURY, TCLP	
Client ID:	LCSW		Batch ID: 4800	RunNo: 6925	
Prep Date:	11/13/2012		Analysis Date: 11/14/2012	SeqNo: 200356	Units: mg/L
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	1211391-001CMS		SampType: MS	TestCode: MERCURY, TCLP	
Client ID:	BatchQC		Batch ID: 4800	RunNo: 6925	
Prep Date:	11/13/2012		Analysis Date: 11/14/2012	SeqNo: 200361	Units: mg/L
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	MB-4577	SampType:	MBLK	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	PBW	Batch ID:	4577	RunNo:	6598					
Prep Date:	10/30/2012	Analysis Date:	10/31/2012	SeqNo:	190645	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-4577	SampType:	LCS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	LCSW	Batch ID:	4577	RunNo:	6598					
Prep Date:	10/30/2012	Analysis Date:	10/31/2012	SeqNo:	190646	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	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	1210C00-001AMS	SampType:	MS	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:	190649	Units:	mg/L			
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	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

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.
- 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	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
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1210C09

Received by/date:

10/26/12

Logged By: Ashley Gallegos

10/26/2012 9:55:00 AM

Completed By: Ashley Gallegos

10/26/2012 10:08:25 AM

Reviewed By:

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 $>0^{\circ}\text{C}$ 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 ☐

of preserved
bottles checked
for pH:

14. Are matrices correctly identified on Chain of Custody?

Yes ☒ No ☐

(<2 or >12 unless noted)

15. Is it clear what analyses were requested?

Yes ☒ No ☐

Adjusted?

16. Were all holding times able to be met?

Yes ☒ No ☐

(If no, notify customer for authorization.)

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:

☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2291

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type)

☐ Standard ☒ Rush Same Day / ASAP

Cap Vte SWD #1

Project #:

Project Manager:


D. Watson

Sampler: H. Woods

On Ice	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Sample Temperature: 25

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
¹⁰ 1/25/12	1642	Heatha M. Woods	Christine Waelen	¹⁰ 1/25/12	1642
Date:	Time:	Relinquished by:	Received by:	Date	Time
¹⁰ 1/25/12	1721	Christine Waelen		10/21/12	0955

Remarks:	Bill to ConocoPhillips
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WO: 9190894

Area: 1

Activity Code: D150

Supervisor: Kendal Bassing

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-8, 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 notated on the analytical report. *metals*