

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

Form C-141  
Revised August 8, 2011

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

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, a Wholly Owned Subsidiary of ConocoPhillips Company</b>	Contact <b>Ashley Maxwell</b>
Address <b>3401 East 30<sup>th</sup> St, Farmington, NM</b>	Telephone No. <b>(505) 324-5169</b>
Facility Name: <b>Canyon Largo Unit NP 256</b>	Facility Type: <b>Gas Well SF-078878</b>
Surface Owner <b>Federal</b>	Mineral Owner <b>Federal</b>
API No. <b>3003920907</b>	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>K</b>	<b>27</b>	<b>25N</b>	<b>7W</b>	<b>1520'</b>	<b>South</b>	<b>1760'</b>	<b>West</b>	<b>Rio Arriba</b>

Latitude 36.36826 Longitude -107.56404

**NATURE OF RELEASE**

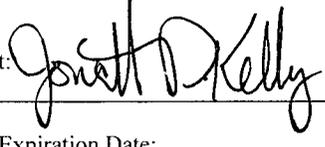
Type of Release <b>Produced Fluids</b>	Volume of Release <b>554 yds<sup>3</sup></b>	Volume Recovered <b>554 yds<sup>3</sup></b>
Source of Release <b>Unknown Production Equipment</b>	Date and Hour of Occurrence <b>7/31/2012</b>	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	<b>RCVD NOV 21 '12</b>
By Whom?	Date and Hour	<b>OIL CONS. 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.\*  
**Discovery of historical hydrocarbon impacted soil.**

Describe Area Affected and Cleanup Action Taken.\*  
**Excavation was required based on NMOCD Guidelines for Remediation of Leaks, Spills and Releases. The excavation was 60'X30'X4.5' and 554 yds<sup>3</sup> of soil was transported to a third party land farm. Excavation and confirmation sampling occurred. Analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is needed.**

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>Ashley Maxwell</b>	Approved by Environmental Specialist: 	
Title: <b>Field Environmental Specialist</b>	Approval Date: <b>7/11/2013</b>	Expiration Date:
E-mail Address: <b>ashley.p.wethington@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>November 19, 2012</b> Phone: <b>505-324-5169</b>		

\* Attach Additional Sheets If Necessary

NSK1319249739



Animas Environmental Services, LLC

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

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

Durango, Colorado  
970-403-3274

November 15, 2012

Ashley Maxwell  
ConocoPhillips  
San Juan Business Unit  
Office 216-2  
5525 Hwy 64  
Farmington, New Mexico 87401

**RE: Initial Release Assessment and Final Excavation Report  
Canyon Largo Unit NP #256  
Rio Arriba County, New Mexico**

Dear Ms. Maxwell:

On May 3, August 1, and August 9, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Canyon Largo Unit NP #256, located in Rio Arriba County, New Mexico. The initial release assessment was completed on May 3, 2012. The release was characterized by three areas of surface staining within the secondary containment around the below grade and condensate tanks at the site. Two minor areas of petroleum contaminated soils were also noted north and northwest of the wellhead. The release is historical, and no information regarding cause and extent has been documented. The final excavation was completed by CoP contractors while AES was on location on August 9, 2012.

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## 1.0 Site Information

### 1.1 Location

Location – NE¼ SW¼, Section 27, T25N, R7W, Rio Arriba County, New Mexico  
Well Head Latitude/Longitude – N36.36854 and W107.56476, respectively  
Release Location Latitude/Longitude – N36.36829 and W107.56470, respectively  
Land Jurisdiction – Bureau of Land Management (BLM)  
Figure 1. Topographic Site Location Map  
Figure 2. Aerial Site Map, May 2012

### 1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no prior ranking information was located. 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 below ground surface (bgs). A tributary to the wash in Palluche Canyon is located approximately 900 feet west of the release location. Based on this information, the location was assessed a ranking score of 10 per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

### 1.3 Initial Release Assessment

AES was initially contacted by Shelly Cook-Cowden of CoP on May 2, 2012, and on May 3, 2012, Deborah Watson and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 36 soil samples from 26 test holes and collection of 3 soil samples from the locations of Stain A and B. Based on the field screening results, AES recommended excavation of the release area. Sample locations and results are presented on Figure 3.

### 1.4 Final Excavation Confirmation Sampling

On August 1, 2012, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of six confirmation soil samples (SC-1 through SC-6) of the walls and base of the excavation and two confirmation soil samples from Stain A (SC-7) and Stain B (SC-8). All visibly stained soils were removed from the locations of Stain A and B. Based on field screening and laboratory results, AES recommended further excavation of the release area.

On August 9, 2012, AES returned to the location to collect additional confirmation soil samples (SC-9 and SC-10) of the expanded excavation. The total area excavated was approximately 2,951 square feet by 3.5 feet deep. Competent sandstone was present at depths between 2 and 3.5 feet and limited expansion of the excavation base. An existing pipeline also limited excavation expansion to the south. Sample locations, results, and final excavation extents are shown on Figure 4.

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## 2.0 Soil Sampling

A total of 26 soil samples and 10 composite soil samples were collected during the initial assessment and confirmation sampling. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total

petroleum hydrocarbons (TPH). Seven composite soil samples (SC-1 through SC-4, SC-7, SC-8, and SC-10) collected during the excavation clearance were 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 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 seven 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/8260B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

## 2.3 *Field Screening and Laboratory Analytical Results*

On May 3, 2012, initial assessment field screening readings for VOCs via OVM ranged from 2.1 ppm in TH-25 up to 3,911 ppm in TH-1. Field TPH concentrations ranged from 35.8 mg/kg in TH-24 up to 33,100 mg/kg in Stain A.

On August 1 and 9, 2012, final excavation field screening readings for VOCs via OVM ranged from 7.8 ppm in SC-7 to 624 ppm in SC-4. Field TPH concentrations ranged from 239 mg/kg in SC-5 up to 8,400 mg/kg in SC-8. Results are included below in Table 1 and on Figures 4 through 6. The AES Field Screening Reports are attached.

**Table 1. Soil Field Screening Results**  
**Canyon Largo Unit NP #256 Release Assessment and Final Excavation**  
**May and August 2012**

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>VOCs OVM Reading (ppm)</b>	<b>Field TPH (mg/kg)</b>
		<i>NMOCDC Action Level*</i>	100	1,000
TH-1	05/03/12	0.5	3,911	22,900
		2.2	1,278	2,380
TH-2	05/03/12	0.5	462	5,330
		2	36.4	300
TH-3	05/03/12	1	8.4	838
		2	7.8	61.4
TH-4	05/03/12	0.5	123	3,640
		2	2,822	NA
TH-5	05/03/12	0.5	172	2,670
		2	2,258	8,180
TH-6	05/03/12	0.5	243	3,750
		2	1,904	10,500
TH-7	05/03/12	0.5	12.6	NA
		2	6.5	126
TH-8	05/03/12	0.5	13.0	NA
		2	1,685	8,270
TH-9	05/03/12	0.5	147	NA
		1	1,217	3,870
TH-10	05/03/12	0.5	1,522	NA
		1.5	2,594	8,130
TH-11	05/03/12	1	1,652	3,120
TH-12	05/03/12	0.7	13.7	57.4
TH-13	05/03/12	1	3,489	NA
TH-14	05/03/12	2	2,155	NA
TH-15	05/03/12	2	2,272	NA
TH-16	05/03/12	2	1,824	NA
TH-17	05/03/12	1.7	2,882	NA

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>VOCs OVM Reading (ppm)</b>	<b>Field TPH (mg/kg)</b>
		<i>NMOCDC Action Level*</i>	<b>100</b>	<b>1,000</b>
TH-18	05/03/12	1	7.5	97.7
TH-19	05/03/12	1.5	7.5	82.9
TH-20	05/03/12	1	4.6	80.2
TH-21	05/03/12	1	<b>313</b>	<b>2,520</b>
TH-22	05/03/12	2	6.0	<b>1,070</b>
TH-23	05/03/12	1	6.3	<b>&gt;3,000</b>
TH-24	05/03/12	1	3.7	35.8
TH-25	05/03/12	1	2.1	312
TH-26	05/03/12	1	46.3	81.8
Stain A	05/03/12	0.5	NA	<b>10,100</b>
		2	NA	<b>33,100</b>
Stain B	05/03/12	2.0	NA	241
SC-1	08/01/12	2	<b>282</b>	<b>2,200</b>
SC-2	08/01/12	3.5	<b>191</b>	<b>2,760</b>
SC-3	08/01/12	1 to 3.5	<b>588</b>	<b>2,290</b>
SC-4	08/01/12	1 to 2	<b>624</b>	<b>2,790</b>
SC-5	08/01/12	1 to 2	16.5	239
SC-6	08/01/12	1 to 3.5	11.7	310
SC-7	08/01/12	Stain A (Surface)	7.8	<b>6,410</b>
SC-8	08/01/12	Stain B (Surface)	93.6	<b>8,400</b>
SC-9	08/09/12	1 to 3.5	23.7	322
SC-10	08/09/12	1 to 3.5	27.9	996

NA – Not Analyzed

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

Laboratory analyses for SC-1 through SC-4, SC-7, SC-8 and SC-10 were used to confirm field screening results during excavation activities on August 1 and 9. Benzene concentrations were reported below laboratory detection limits in all samples. Total BTEX concentrations were also reported below laboratory detection limits for all the samples. TPH concentrations (as GRO/DRO) ranged from 330 mg/kg in SC-10 up to

2,522 mg/kg in SC-8. Results are presented in Table 2 and on Figure 5. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, BTEX and TPH  
 Canyon Largo Unit NP #256 Release Assessment and Final Excavation  
 May and August 2012

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
<i>NMOCD Action Level*</i>			10	50	1,000	
SC-1	08/01/12	2	<0.25	<1.25	97	780
SC-2	08/01/12	3.5	<0.50	<2.50	<b>94</b>	<b>1,100</b>
SC-3	08/01/12	1 to 3.5	<0.25	<1.25	<b>230</b>	<b>1,400</b>
SC-4	08/01/12	1 to 2	<0.25	<1.25	<b>90</b>	<b>1,000</b>
SC-7	08/01/12	Stain A (Surface)	<0.050	<0.25	<b>&lt;5.0</b>	<b>1,400</b>
SC-8	08/01/12	Stain B (Surface)	<0.050	<0.25	<b>22</b>	<b>2,500</b>
SC-10	08/09/12	1 to 3.5	NA	NA	<5.0	330

NA – Not Analyzed

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

### 3.0 Conclusions and Recommendations

On May 3, 2012, AES conducted an initial release assessment of petroleum contaminated soils associated with a historical release at the Canyon Largo Unit NP #256, located in Rio Arriba County, New Mexico. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a rank of 10. Field screening results above the NMOCD action levels of 100 ppm VOCs and/or 1,000 mg/kg TPH were reported in TH-1, TH-2, TH-4 through TH-6, TH-8 through TH-11, TH-13 through TH-17, TH-21 through TH-23, and at Stain A. The highest VOC concentration was 3,911 ppm in TH-1, and the highest TPH concentration was reported in Stain A with 33,100 mg/kg.

On August 1, 2012, assessment of the excavation area, which included the areas of Stains A and B, was completed. Field screening results of the excavation extents reported VOC concentrations above the NMOCD action levels in SC-1 through SC-4, SC-7 and SC-8. Field TPH concentrations were above the NMOCD action level of 1,000 mg/kg

in all samples, except SC-5 and SC-6. Benzene concentrations in SC-1 through SC-4, SC-7, and SC-8 were reported below the NMOCD action level of 10 mg/kg in all samples. Total BTEX concentrations were also reported below the NMOCD action level of 50 mg/kg in SC-1 through SC-4, SC-7, and SC-8. Laboratory results for samples collected from final excavation extents showed that TPH concentrations (as GRO/DRO) were below the NMOCD action level of 1,000 mg/kg in SC-1, SC-5, SC-6, and SC-10. SC-2 was just above the NMOCD action level with 1,194 mg/kg of TPH.

Further excavation was completed, and confirmation sampling was conducted on August 9, 2012. Field screening results showed that VOC concentrations and field TPH concentrations were below the applicable NMOCD action levels in both SC-9 and SC-10. Laboratory analytical results for SC-10 confirmed that TPH concentrations as GRO/DRO were below the NMOCD action level with 330 mg/kg DRO.

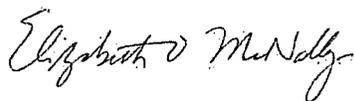
Based on the final field screening and laboratory analytical results of the additional excavation of petroleum contaminated soils at the Canyon Largo Unit NP #256, benzene, total BTEX, and TPH (GRO/DRO) concentrations were below applicable NMOCD action levels, except in SC-2 (base). CoP consulted with NMOCD regarding elevated TPH concentrations in SC-2, and on August 13, 2012, NMOCD concurred that the excavation could be backfilled in the area of SC-2, based on depth to groundwater at the location. 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

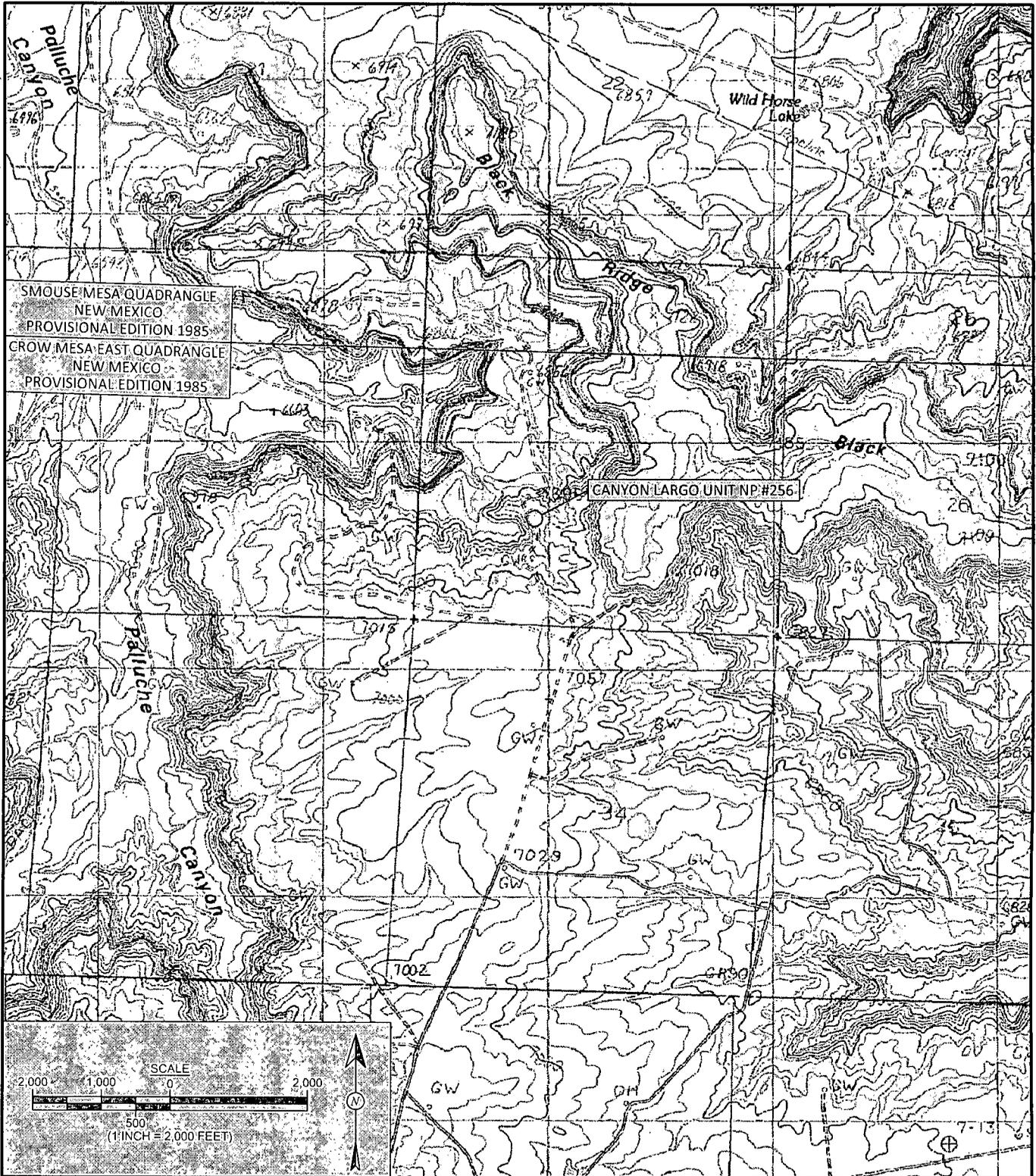


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, May 2012
- Figure 3. Initial Release Assessment Sample Locations and Results, May 2012
- Figure 4. Final Excavation Sample Locations and Results, August 2012
- AES Field Screening Report 050312
- AES Field Screening Report 080112
- AES Field Screening Report 080912
- Hall Laboratory Analytical Report 1208103
- Hall Laboratory Analytical Report 1208475

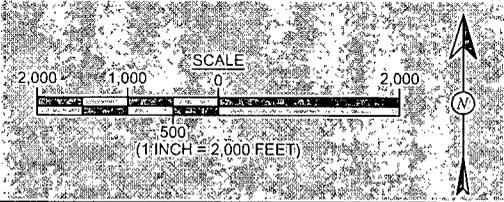
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Release and Final Excavation Report 111512.docx



SMOUSE MESA QUADRANGLE  
NEW MEXICO  
PROVISIONAL EDITION 1985

CROW MESA EAST QUADRANGLE  
NEW MEXICO  
PROVISIONAL EDITION 1985

CANYON LARGO UNIT NP #256



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> May 2, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 6, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> November 6, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> November 6, 2012

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
ConocoPhillips  
CANYON LARGO UNIT NP #256  
RIO ARRIBA COUNTY, NEW MEXICO  
NE¼ SW¼, SECTION 27, T25N, R7W  
N36.36854, W107.56476



Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> May 11, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 6, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> November 6, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> November 6, 2012

**FIGURE 2**

**AERIAL SITE MAP  
MAY 2012**

ConocoPhillips  
CANYON LARGO UNIT NP #256  
RIO ARRIBA COUNTY, NEW MEXICO  
NE¼ SW¼, SECTION 27, T25N, R7W  
N36.36854, W107.56476

**FIGURE 3**

**INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS**  
 MAY 2012  
 ConocoPhillips  
 CANYON LARGO UNIT NP #256  
 RIO ARRIBA COUNTY, NEW MEXICO  
 NE¼ SW¼, SECTION 27, T25N, R7W  
 N36.36854, W107.56476

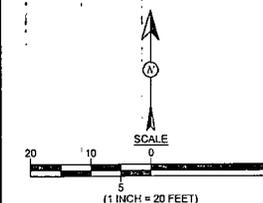


Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> May 11, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 6, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> November 6, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> November 6, 2012

**LEGEND**

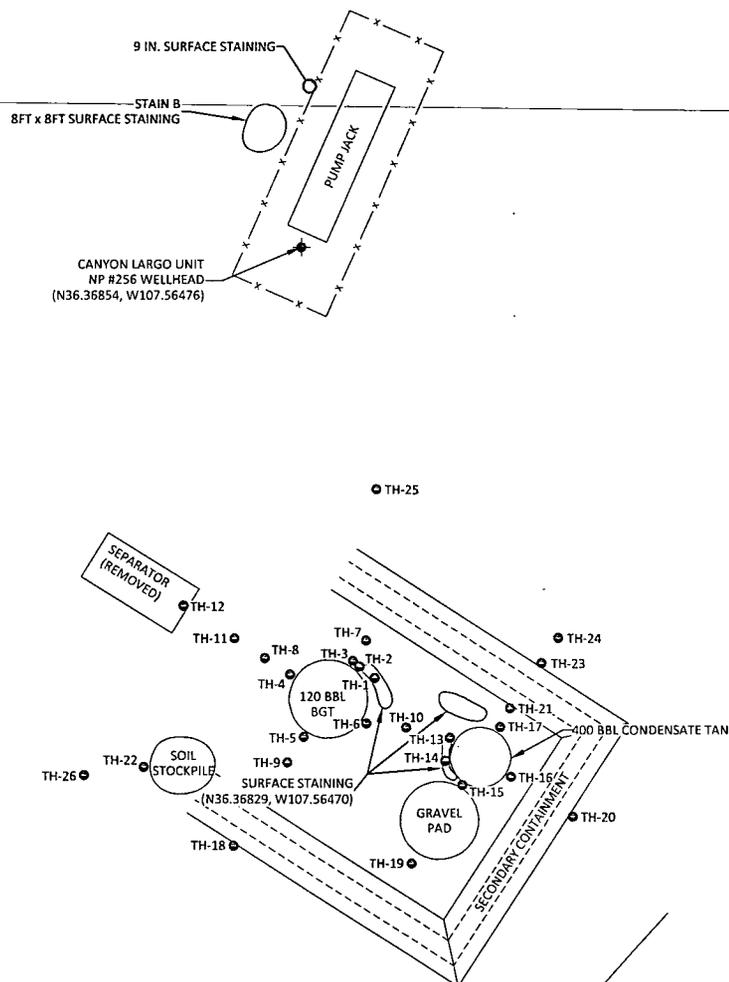
● TEST HOLE LOCATIONS



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>
TH-1	5/3/12	0.5	3,911	22,900
		2.2	1,278	2,380
TH-2	5/3/12	0.5	462	5,330
		2	36.4	300
TH-3	5/3/12	1	8.4	838
		2	7.8	61.4
TH-4	5/3/12	0.5	123	3,640
		2	2,822	NA
TH-5	5/3/12	0.5	172	2,670
		2	2,258	8,180
TH-6	5/3/12	0.5	243	3,750
		2	1,904	10,500
TH-7	5/3/12	0.5	12.6	NA
		2	6.5	126
TH-8	5/3/12	0.5	13.0	NA
		2	1,685	8,270
TH-9	5/3/12	0.5	147	NA
		1	1,217	3,870
TH-10	5/3/12	0.5	1,522	NA
		1.5	2,594	8,130
TH-11	5/3/12	1	1,652	3,120
TH-12	5/3/12	0.7	13.7	57.4
TH-13	5/3/12	1	3,489	NA
TH-14	5/3/12	2	2,155	NA
TH-15	5/3/12	2	2,272	NA
TH-16	5/3/12	2	1,824	NA
TH-17	5/3/12	1.7	2,882	NA
TH-18	5/3/12	1	7.5	97.7
TH-19	5/3/12	1.5	7.5	82.9
TH-20	5/3/12	1	4.6	80.2
TH-21	5/3/12	1	313	2,520
TH-22	5/3/12	2	6.0	1,070
TH-23	5/3/12	1	6.3	>3,000
TH-24	5/3/12	1	3.7	35.8
TH-25	5/3/12	1	2.1	312
TH-26	5/3/12	1	46.3	81.8
STAIN A	5/3/12	0.5	NA	10,100
		2.0	NA	33,100
STAIN B	5/3/12	2.0	NA	241

NA - NOT ANALYZED

STAIN A  
4FT X 4FT SURFACE STAINING



**FIGURE 4**

**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS**  
**AUGUST 2012**  
 ConocoPhillips  
 CANYON LARGO UNIT NP #256  
 RIO ARRIBA COUNTY, NEW MEXICO  
 NE¼ SW¼, SECTION 27, T25N, R7W  
 N36.36854; W107.56476



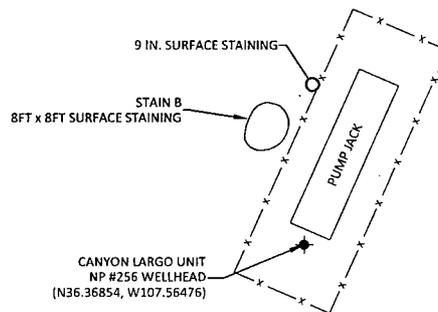
Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> May 11, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 6, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> November 6, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> November 6, 2012

**LEGEND**

- TEST HOLE SAMPLE LOCATIONS
- 5-POINT COMPOSITE SAMPLE LOCATIONS
- ◆ 3-POINT COMPOSITE SAMPLE LOCATIONS

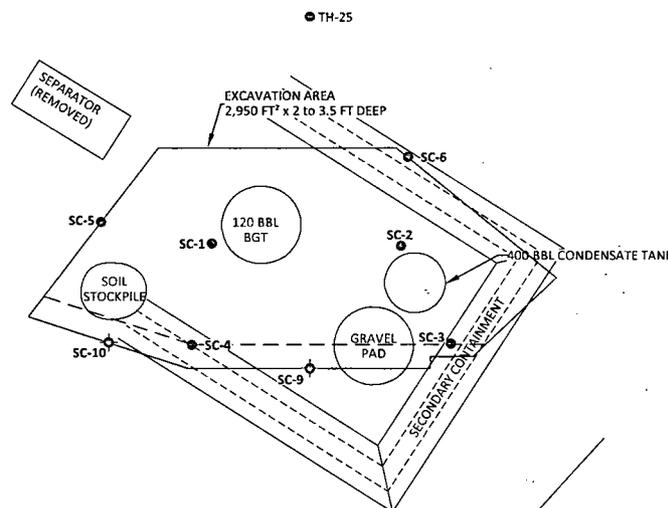
STAIN A  
4FT X 4FT SURFACE STAINING



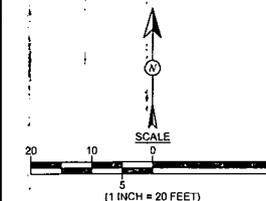
Sample ID	Date	Depth (ft)	OVIM PID (ppm)	TPH (mg/kg)
<b>NMOC ACTION LEVEL</b>				
			100	1,000
SC-1	8/1/12	1 to 2	282	2,200
SC-2	8/1/12	3.5	191	2,760
SC-3	8/1/12	1 to 3.5	588	2,290
SC-4	8/1/12	1 to 2	624	2,790
SC-5	8/1/12	1 to 2	16.5	239
SC-6	8/1/12	1 to 3.5	11.7	310
SC-7	8/1/12	STAIN A (SURFACE)	78	6,410
SC-8	8/1/12	STAIN B (SURFACE)	93.6	8,400
SC-9	8/9/12	1 to 3.5	23.7	322
SC-10	8/9/12	1 to 3.5	27.9	996

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
<b>NMOC ACTION LEVEL</b>						
			10	50	1,000	
SC-1	8/1/12	2	<0.25	<1.25	97	780
SC-2	8/1/12	3.5	<0.50	<2.50	94	1,100
SC-3	8/1/12	1 to 3.5	<0.25	<1.25	230	1,400
SC-4	8/1/12	1 to 2	<0.25	<1.25	90	1,000
SC-7	8/1/12	STAIN A (SURFACE)	<0.050	<0.25	<5.0	1,400
SC-8	8/1/12	STAIN B (SURFACE)	<0.050	<0.25	<5.0	2,500
SC-10	8/9/12	1 to 3.5	NA	NA	1.4	4,330

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8260B AND 8015B.  
 NA = NOT ANALYZED



METER HOUSE



# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Canyon Largo Unit NP #256

Date: 5/3/2012

Matrix: Soil

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

Durango, Colorado  
970-403-3274

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1@0.5'	5/3/2012	9:53	3,911	10:48	22,900	200	10	DAW
TH-1@2.2'	5/3/2012	10:03	1,278	10:53	2,380	20.0	1	DAW
TH-2@0.5'	5/3/2012	10:08	462	10:58	5,330	200	10	DAW
TH-2@2'	5/3/2012	10:17	36.4	11:01	300	20.0	1	DAW
TH-3@1'	5/3/2012	10:25	8.4	11:50	838	20.0	1	DAW
TH-3@2'	5/3/2012	10:35	7.8	11:53	61.4	20.0	1	DAW
TH-4@0.5'	5/3/2012	10:45	123	12:08	3,640	200	10	DAW
TH-4@2'	5/3/2012	10:50	2,822	<i>Not Analyzed for TPH</i>				
TH-5@0.5'	5/3/2012	10:55	172	12:13	2,670	20.0	1	DAW
TH-5@2'	5/3/2012	10:58	2,258	12:20	8,180	200	10	DAW
TH-6@0.5'	5/3/2012	11:10	243	12:26	3,750	200	10	DAW
TH-6@2'	5/3/2012	11:14	1,904	12:35	10,500	200	10	DAW
TH-7@0.5'	5/3/2012	11:53	12.6	<i>Not Analyzed for TPH</i>				
TH-7@2	5/3/2012	11:58	6.5	13:03	126	20.0	1	DAW
TH-8@0.5'	5/3/2012	12:05	13.0	<i>Not Analyzed for TPH</i>				
TH-8@2	5/3/2012	12:10	1,685	13:09	8,270	200	10	DAW
TH-9@0.5'	5/3/2012	12:39	147	<i>Not Analyzed for TPH</i>				
TH-9@1'	5/3/2012	12:42	1,217	13:15	3,870	200	10	DAW
TH-10@0.5'	5/3/2012	12:23	1,522	<i>Not Analyzed for TPH</i>				
TH-10@1.5'	5/3/2012	12:27	2,594	13:22	8,130	200	10	DAW
TH-11@1	5/3/2012	13:26	1,652	13:44	3,120	200	10	DAW
TH-12@0.7'	5/3/2012	13:36	13.7	13:56	57.4	20.0	1	DAW

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-13@1'	5/3/2012	13:40	3,489	Not Analyzed for TPH				
TH-14@2'	5/3/2012	14:08	2,155	Not Analyzed for TPH				
TH-15@2'	5/3/2012	14:09	2,272	Not Analyzed for TPH				
TH-16@2'	5/3/2012	14:12	1,824	Not Analyzed for TPH				
TH-17@1.7'	5/3/2012	14:14	2,882	Not Analyzed for TPH				
TH-18@1'	5/3/2012	14:17	7.5	15:19	97.7	20.0	1	DAW
TH-19@1.5'	5/3/2012	14:20	7.5	15:26	82.9	20.0	1	DAW
TH-20@1'	5/3/2012	14:25	4.6	15:30	80.2	20.0	1	DAW
TH-21@1'	5/3/2012	14:30	313	15:23	2,520	20.0	1	DAW
TH-22@2'	5/3/2012	14:45	6.0	15:33	1,070	20.0	1	DAW
TH-23@1'	5/3/2012	15:20	6.3	Not Analyzed for TPH				
TH-24@1'	5/3/2012	15:50	3.7	16:25	35.8	20.0	1	DAW
TH-25@1'	5/3/2012	15:52	2.1	16:30	312	20.0	1	DAW
TH-26@1'	5/3/2012	15:57	46.3	16:35	81.8	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  
970-403-3274

Client: ConocoPhillips

Project Location: Canyon Largo Unit NP #256

Date: 8/1/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	8/1/2012	12:32	West Base	282.0	13:55	2,200	200	10	HMW
SC-2	8/1/2012	12:34	East Base	191.0	14:03	2,760	200	10	HMW
SC-3	8/1/2012	12:36	Southeast Wall	588.0	14:10	2,290	200	10	HMW
SC-4	8/1/2012	12:39	Southwest Wall	624.0	14:17	2,790	200	10	HMW
SC-5	8/1/2012	12:42	Northeast Wall	16.5	14:21	239	20.0	1	HMW
SC-6	8/1/2012	12:44	Northwest Wall	11.7	14:24	310	20.0	1	HMW
SC-7	8/1/2012	13:26	Stain A	7.8	14:51	6,410	200	10	HMW
SC-8	8/1/2012	13:30	Stain B	93.6	14:57	8,400	200	10	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

\*Field TPH concentrations recorded may be below PQL.

Analyst:

*Leather M. Woods*

# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado  
970-403-3274

Client: ConocoPhillips

Project Location: Canyon Largo Unit NP #256

Date: 8/9/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-9	8/9/2012	12:28	Southeast Wall	23.7	12:46	332	20.0	1	HMW
SC-10	8/9/2012	11:36	Southwest Wall	27.9	11:53	996	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

\*Field TPH concentrations recorded may be below PQL.

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)

August 07, 2012

Debbie Watson

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

RE: Canyon Largo Unit NP #256

OrderNo.: 1208103

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/2/2012 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

**Analytical Report**

Lab Order 1208103

Date Reported: 8/7/2012

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-1

**Project:** Canyon Largo Unit NP #256

**Collection Date:** 8/1/2012 12:32:00 PM

**Lab ID:** 1208103-001

**Matrix:** SOIL

**Received Date:** 8/2/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	780	98		mg/Kg	10	8/2/2012 11:49:59 AM
Surr: DNOP	0	77.6-140	S	%REC	10	8/2/2012 11:49:59 AM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	8/2/2012 1:58:10 PM
Toluene	ND	0.25		mg/Kg	5	8/2/2012 1:58:10 PM
Ethylbenzene	ND	0.25		mg/Kg	5	8/2/2012 1:58:10 PM
Xylenes, Total	ND	0.50		mg/Kg	5	8/2/2012 1:58:10 PM
Surr: 1,2-Dichloroethane-d4	85.0	70-130		%REC	5	8/2/2012 1:58:10 PM
Surr: 4-Bromofluorobenzene	78.2	70-130		%REC	5	8/2/2012 1:58:10 PM
Surr: Dibromofluoromethane	76.8	70-130		%REC	5	8/2/2012 1:58:10 PM
Surr: Toluene-d8	81.4	70-130		%REC	5	8/2/2012 1:58:10 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	97	25		mg/Kg	5	8/2/2012 1:58:10 PM
Surr: BFB	78.2	70-130		%REC	5	8/2/2012 1:58:10 PM

**Qualifiers:**

- \*X 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
- U Samples with CalcVal < MDL

**Analytical Report**

Lab Order 1208103

Date Reported: 8/7/2012

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-2

**Project:** Canyon Largo Unit NP #256

**Collection Date:** 8/1/2012 12:34:00 PM

**Lab ID:** 1208103-002

**Matrix:** SOIL

**Received Date:** 8/2/2012 9:55:00 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)	1100	100		mg/Kg	10	8/2/2012 12:12:27 PM
Surr: DNOP	0	77.6-140	S	%REC	10	8/2/2012 12:12:27 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	0.50		mg/Kg	10	8/2/2012 3:22:00 PM
Toluene	ND	0.50		mg/Kg	10	8/2/2012 3:22:00 PM
Ethylbenzene	ND	0.50		mg/Kg	10	8/2/2012 3:22:00 PM
Xylenes, Total	ND	1.0		mg/Kg	10	8/2/2012 3:22:00 PM
Surr: 1,2-Dichloroethane-d4	82.3	70-130		%REC	10	8/2/2012 3:22:00 PM
Surr: 4-Bromofluorobenzene	84.7	70-130		%REC	10	8/2/2012 3:22:00 PM
Surr: Dibromofluoromethane	75.5	70-130		%REC	10	8/2/2012 3:22:00 PM
Surr: Toluene-d8	80.8	70-130		%REC	10	8/2/2012 3:22:00 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	94	50		mg/Kg	10	8/2/2012 3:22:00 PM
Surr: BFB	84.7	70-130		%REC	10	8/2/2012 3:22:00 PM

**Qualifiers:**

- \* / X 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
- U Samples with CalcVal < MDL

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-3**Project:** Canyon Largo Unit NP #256**Collection Date:** 8/1/2012 12:36:00 PM**Lab ID:** 1208103-003**Matrix:** SOIL**Received Date:** 8/2/2012 9:55:00 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)	1400	100		mg/Kg	10	8/2/2012 12:19:29 PM
Surr: DNOP	0	77.6-140	S	%REC	10	8/2/2012 12:19:29 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	0.25		mg/Kg	5	8/2/2012 2:26:05 PM
Toluene	ND	0.25		mg/Kg	5	8/2/2012 2:26:05 PM
Ethylbenzene	ND	0.25		mg/Kg	5	8/2/2012 2:26:05 PM
Xylenes, Total	ND	0.50		mg/Kg	5	8/2/2012 2:26:05 PM
Surr: 1,2-Dichloroethane-d4	84.4	70-130		%REC	5	8/2/2012 2:26:05 PM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	5	8/2/2012 2:26:05 PM
Surr: Dibromofluoromethane	77.8	70-130		%REC	5	8/2/2012 2:26:05 PM
Surr: Toluene-d8	84.3	70-130		%REC	5	8/2/2012 2:26:05 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	230	25		mg/Kg	5	8/2/2012 2:26:05 PM
Surr: BFB	109	70-130		%REC	5	8/2/2012 2:26:05 PM

**Qualifiers:**

- \*X 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
- U Samples with CalcVal < MDL

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-4

Project: Canyon Largo Unit NP #256

Collection Date: 8/1/2012 12:39:00 PM

Lab ID: 1208103-004

Matrix: SOIL

Received Date: 8/2/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	1000	97		mg/Kg	10	8/2/2012 12:34:28 PM
Surr: DNOP	0	77.6-140	S	%REC	10	8/2/2012 12:34:28 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	8/2/2012 2:54:01 PM
Toluene	ND	0.25		mg/Kg	5	8/2/2012 2:54:01 PM
Ethylbenzene	ND	0.25		mg/Kg	5	8/2/2012 2:54:01 PM
Xylenes, Total	ND	0.50		mg/Kg	5	8/2/2012 2:54:01 PM
Surr: 1,2-Dichloroethane-d4	82.1	70-130		%REC	5	8/2/2012 2:54:01 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%REC	5	8/2/2012 2:54:01 PM
Surr: Dibromofluoromethane	79.6	70-130		%REC	5	8/2/2012 2:54:01 PM
Surr: Toluene-d8	84.6	70-130		%REC	5	8/2/2012 2:54:01 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	90	25		mg/Kg	5	8/2/2012 2:54:01 PM
Surr: BFB	98.5	70-130		%REC	5	8/2/2012 2:54:01 PM

**Qualifiers:** \*/X 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  
 U Samples with CalcVal < MDL

**Analytical Report**

Lab Order 1208103

Date Reported: 8/7/2012

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-7

**Project:** Canyon Largo Unit NP #256

**Collection Date:** 8/1/2012 1:26:00 PM

**Lab ID:** 1208103-005

**Matrix:** SOIL

**Received Date:** 8/2/2012 9:55:00 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)	1400	97		mg/Kg	10	8/2/2012 12:45:35 PM
Surr: DNOP	0	77.6-140	S	%REC	10	8/2/2012 12:45:35 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	0.050		mg/Kg	1	8/2/2012 1:02:22 PM
Toluene	ND	0.050		mg/Kg	1	8/2/2012 1:02:22 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/2/2012 1:02:22 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/2/2012 1:02:22 PM
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%REC	1	8/2/2012 1:02:22 PM
Surr: 4-Bromofluorobenzene	71.9	70-130		%REC	1	8/2/2012 1:02:22 PM
Surr: Dibromofluoromethane	75.2	70-130		%REC	1	8/2/2012 1:02:22 PM
Surr: Toluene-d8	85.6	70-130		%REC	1	8/2/2012 1:02:22 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/2/2012 1:02:22 PM
Surr: BFB	71.9	70-130		%REC	1	8/2/2012 1:02:22 PM

**Qualifiers:**

- \*X 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
- U Samples with CalcVal < MDL

**Hall Environmental Analysis Laboratory, Inc.**

Date Reported: 8/7/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-8

Project: Canyon Largo Unit NP #256

Collection Date: 8/1/2012 1:30:00 PM

Lab ID: 1208103-006

Matrix: SOIL

Received Date: 8/2/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	2500	100		mg/Kg	10	8/2/2012 1:11:24 PM
Surr: DNOP	0	77.6-140	S	%REC	10	8/2/2012 1:11:24 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	8/2/2012 1:30:17 PM
Toluene	ND	0.050		mg/Kg	1	8/2/2012 1:30:17 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/2/2012 1:30:17 PM
Xylenes, Total	ND	0.10		mg/Kg	1	8/2/2012 1:30:17 PM
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%REC	1	8/2/2012 1:30:17 PM
Surr: 4-Bromofluorobenzene	118	70-130		%REC	1	8/2/2012 1:30:17 PM
Surr: Dibromofluoromethane	79.8	70-130		%REC	1	8/2/2012 1:30:17 PM
Surr: Toluene-d8	81.9	70-130		%REC	1	8/2/2012 1:30:17 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	22	5.0		mg/Kg	1	8/2/2012 1:30:17 PM
Surr: BFB	118	70-130		%REC	1	8/2/2012 1:30:17 PM

**Qualifiers:** \*X 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  
U Samples with CalcVal < MDL

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208103

07-Aug-12

Client: Animas Environmental Services

Project: Canyon Largo Unit NP #256

Sample ID: <b>MB-3156</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>3156</b>	RunNo: <b>4554</b>								
Prep Date: <b>8/2/2012</b>	Analysis Date: <b>8/2/2012</b>	SeqNo: <b>128991</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	11		10.00		106	77.6	140			

Sample ID: <b>LCS-3156</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>3156</b>	RunNo: <b>4554</b>								
Prep Date: <b>8/2/2012</b>	Analysis Date: <b>8/2/2012</b>	SeqNo: <b>129140</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.0	52.6	130			
Surr: DNOP	4.3		5.000		85.3	77.6	140			

### Qualifiers:

- \* / X 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#: 1208103

07-Aug-12

Client: Animas Environmental Services

Project: Canyon Largo Unit NP #256

Sample ID: 5ml-rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R4612	RunNo: 4612								
Prep Date:	Analysis Date: 8/2/2012	SeqNo: 130187 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: 1,2-Dichloroethane-d4	0.41		0.5000		81.1	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		83.2	70	130			
Surr: Dibromofluoromethane	0.37		0.5000		75.0	70	130			
Surr: Toluene-d8	0.40		0.5000		79.1	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R4612	RunNo: 4612								
Prep Date:	Analysis Date: 8/2/2012	SeqNo: 130189 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	92.4	70	130			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.3	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.3	70	130			
Surr: Dibromofluoromethane	0.36		0.5000		71.7	70	130			
Surr: Toluene-d8	0.40		0.5000		79.3	70	130			

### Qualifiers:

- \* / X 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#: 1208103

07-Aug-12

Client: Animas Environmental Services

Project: Canyon Largo Unit NP #256

Sample ID: <b>5ml-rb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>R4612</b>	RunNo: <b>4612</b>								
Prep Date:	Analysis Date: <b>8/2/2012</b>	SeqNo: <b>130165</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	420		500.0		83.2	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>R4612</b>	RunNo: <b>4612</b>								
Prep Date:	Analysis Date: <b>8/2/2012</b>	SeqNo: <b>130170</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	91.4	85	115			
Surr: BFB	400		500.0		80.2	70	130			

## Qualifiers:

\*X 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 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: 1208103  
 Received by/date: MG 08/02/12  
 Logged By: Anne Thorne 8/2/2012 9:55:00 AM Anne Thorne  
 Completed By: Anne Thorne 8/2/2012 Anne Thorne  
 Reviewed By: MG 08/02/12

### 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	1.0	Good	Yes			

# Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche  
Fonda, NM 87401

Phone #: 505-5164-2281

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:  
Canyon Largo Unit NP #256

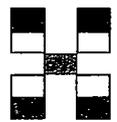
Project #:

Project Manager:  
D. Watson

Sampler: Heather Woods

On Ice:  Yes       No

Sample Temperature: 5



## 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 + TPH (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 Rinshles (Y or N)
8/1/12	1232	Soil	SC-1	Mud Kit 2 2oz jars	Mud	1208102	X	X										
8/1/12	1234	Soil	SC-2	1/1		-002	X	X										
8/1/12	1234	Soil	SC-3	Mud Kit 2 2oz jars	Mud	-003	X	X										
8/1/12	1239	Soil	SC-4			-004	X	X										
8/1/12	1326	Soil	SC-7			-005	X	X										
8/1/12	1330	Soil	SC-8			-006	X	X										

Date: 8/1/12 Time: 1804 Relinquished by: Heath M. Wood Received by: Christina Date: 8/1/12 Time: 1804

Date: 8/1/12 Time: 1804 Relinquished by: Christina Received by: [Signature] Date: 08/01/12 Time: 0955

Remarks: Bill to Conoco Phillips

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.



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)

August 13, 2012

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: Canyon Largo Unit NP #256

OrderNo.: 1208475

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/10/2012 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

Analytical Report

Lab Order 1208475

Date Reported: 8/13/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-8

Project: Canyon Largo Unit NP #256

Collection Date: 8/9/2012 11:36:00 AM

Lab ID: 1208475-001

Matrix: MEOH (SOIL)

Received Date: 8/10/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	330	100		mg/Kg	10	8/10/2012 11:05:36 AM
Surr: DNOP	0	77.6-140	S	%REC	10	8/10/2012 11:05:36 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/10/2012 12:40:38 PM
Surr: BFB	85.0	84-116		%REC	1	8/10/2012 12:40:38 PM

Qualifiers: \*/X 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  
 U Samples with CalcVal < MDL

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1208475

13-Aug-12

Client: Animas Environmental Services

Project: Canyon Largo Unit NP #256

Sample ID	<b>MB-3264</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>3264</b>	RunNo:	<b>4775</b>					
Prep Date:	<b>8/9/2012</b>	Analysis Date:	<b>8/10/2012</b>	SeqNo:	<b>134569</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	9.7		10.00		96.9	77.6	140			

Sample ID	<b>LCS-3264</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>3264</b>	RunNo:	<b>4775</b>					
Prep Date:	<b>8/9/2012</b>	Analysis Date:	<b>8/10/2012</b>	SeqNo:	<b>134693</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	76.0	52.6	130			
Surr: DNOP	5.3		5.000		106	77.6	140			

Sample ID	<b>1208372-014AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>3264</b>	RunNo:	<b>4775</b>					
Prep Date:	<b>8/9/2012</b>	Analysis Date:	<b>8/10/2012</b>	SeqNo:	<b>135268</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	51.28	0	74.6	57.2	146			
Surr: DNOP	4.2		5.128		81.0	77.6	140			

Sample ID	<b>1208372-014AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>3264</b>	RunNo:	<b>4775</b>					
Prep Date:	<b>8/9/2012</b>	Analysis Date:	<b>8/10/2012</b>	SeqNo:	<b>135269</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.8	48.92	0	78.0	57.2	146	0.226	24.5	
Surr: DNOP	4.2		4.892		85.2	77.6	140	0	0	

Sample ID	<b>MB-3281</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>3281</b>	RunNo:	<b>4802</b>					
Prep Date:	<b>8/10/2012</b>	Analysis Date:	<b>8/11/2012</b>	SeqNo:	<b>135438</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	77.6	140			

Sample ID	<b>LCS-3281</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015B: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>3281</b>	RunNo:	<b>4802</b>					
Prep Date:	<b>8/10/2012</b>	Analysis Date:	<b>8/11/2012</b>	SeqNo:	<b>135439</b>	Units:	<b>%REC</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.8	77.6	140			

**Qualifiers:**

- \* /X 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#: 1208475

13-Aug-12

Client: Animas Environmental Services

Project: Canyon Largo Unit NP #256

Sample ID	1208453-003AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	3281	RunNo:	4802					
Prep Date:	8/10/2012	Analysis Date:	8/11/2012	SeqNo:	135441	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.25		4.822		88.1	77.6	140			

Sample ID	1208453-003AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	3281	RunNo:	4802					
Prep Date:	8/10/2012	Analysis Date:	8/11/2012	SeqNo:	135442	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.34		4.950		87.7	77.6	140	0	0	

## Qualifiers:

\*/X 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#: 1208475

13-Aug-12

**Client:** Animas Environmental Services

**Project:** Canyon Largo Unit NP #256

Sample ID <b>MB-3263</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>3263</b>	RunNo: <b>4788</b>								
Prep Date: <b>8/9/2012</b>	Analysis Date: <b>8/10/2012</b>	SeqNo: <b>135570</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	830		1000		82.6	84	116			S

Sample ID <b>LCS-3263</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>3263</b>	RunNo: <b>4788</b>								
Prep Date: <b>8/9/2012</b>	Analysis Date: <b>8/10/2012</b>	SeqNo: <b>135574</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.4	85	115			
Surr: BFB	1000		1000		101	84	116			

Sample ID <b>1208372-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>3263</b>	RunNo: <b>4788</b>								
Prep Date: <b>8/9/2012</b>	Analysis Date: <b>8/10/2012</b>	SeqNo: <b>135575</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.7	23.70	1.893	101	70	130			
Surr: BFB	1100		947.9		120	84	116			S

Sample ID <b>1208372-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015B: Gasoline Range</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>3263</b>	RunNo: <b>4788</b>								
Prep Date: <b>8/9/2012</b>	Analysis Date: <b>8/10/2012</b>	SeqNo: <b>135576</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.50	1.893	106	70	130	3.69	22.1	
Surr: BFB	950		939.8		101	84	116	0	0	

**Qualifiers:**

- \* / X 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 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: **1208475**

Received by/date: *[Signature]* **08/10/12**

Logged By: **Ashley Gallegos** **8/10/2012 10:05:00 AM** *[Signature]*

Completed By: **Ashley Gallegos** **8/10/2012 10:08:54 AM** *[Signature]*

Reviewed By: *[Signature]* **08/10/12**

**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  # 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? (If no, notify customer for authorization.) Yes  No  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	1.0	Good	Yes			

