

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company ConocoPhillips Company	Contact Ashley Maxwell
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-324-5169
Facility Name San Juan 29-5 Unit 7A	Facility Type Gas Well Lease # SF-078277
Surface Owner Federal	Mineral Owner Federal API No. 3003921340

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	07	29N	05W	1700'	South	810'	East	Rio Arriba County

Latitude 36.7374916° N Longitude -107.39189° W

NATURE OF RELEASE

Type of Release Produced Fluids	Volume of Release 936 yds³	Volume Recovered 936 yds³
Source of Release Below Grade Tank	Date and Hour of Occurrence 5/3/2012	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? RCVD NOV 16 '12 OIL CONS. DIV.	
By Whom?	Date and Hour DIST. 3	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

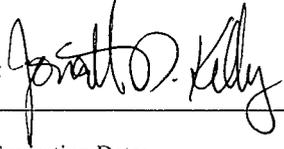
Describe Cause of Problem and Remedial Action Taken.*

Below Grade Tank Closure Activities

Describe Area Affected and Cleanup Action Taken.*

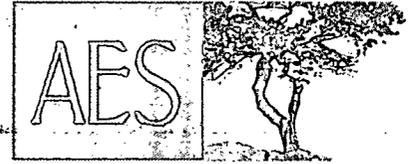
Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. Excavation was required based on NMOCD Guidelines for Remediation of Leaks, Spills and Releases. The excavation was 45'X80'X8' and 936 yds³ of soil was transported to a third party land farm. Samples were collected for benzene, BTEX, TPH, and chlorides. Based on analytical results, total BTEX exceeded the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. On May 7, 2012, Brandon Powell, NMOCD, approved the application of KMNO4 based on depth to ground water. On May 16, 2012, KNMO4 was applied to the walls and base of the excavation, excavation was then back filled, therefore no further action is required.

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: Ashley Maxwell	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 3/07/2013	Expiration Date:
E-mail Address: ashley.p.wethington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: November 12, 2012 Phone: 505-324-5169		

* Attach Additional Sheets If Necessary

NR 1306648087



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

October 19, 2012:

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

**RE: Release Assessment and Final Excavation Report
San Juan 29-5 #7A
Rio Arriba County, New Mexico**

Dear Ms. Maxwell:

On April 24 and May 4, 2012, Animas Environmental Services, LLC (AES) completed a release assessment and environmental clearance of the final excavation limits at the San Juan 29-5 #7A, located in Rio Arriba County, New Mexico. The release was discovered during a below grade tank closure and site reset in November 2011. The release assessment was completed by AES on April 24, 2012. The final excavation was completed by contractors prior to AES' arrival to the location on May 4, 2012. On May 16, 2012, while AES personnel were on location, potassium permanganate was applied to the walls and base of the excavation.

1.0 Site Information

1.1 Location

Location – NE¼ SE¼, Section 7, T29N, R5W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.73758 and W107.39245, respectively
Release Location Latitude/Longitude – N36.27866 and W107.16848, 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 a pit closure report dated September 28, 2005, recorded groundwater as being greater than 100 feet below ground surface (bgs). A cathodic well data sheet dated April 28, 1979, was located in the CoP files by Shelly Cook-Cowden and reported groundwater at 100 feet bgs. Additionally, the New Mexico Office of the State Engineer

(NMOSE) database was reviewed, and no registered water wells are located within 1,000 feet of the location. Once on site, AES personnel assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that the depth to groundwater at the site was less than 100 feet bgs, and the location is not within a well-head protection area. Distance to the nearest surface water, a tributary to Frances Creek, is located 1,100 feet to the northwest. The site location has been assigned a ranking score of 10 per the *NMOCD Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Release Assessments

AES was initially contacted by Shelly Cook-Cowden of CoP on April 23, 2012, and on April 24, 2012, Tami Ross and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 15 soil samples from five soil borings (S-1 through S-5) and eight test holes (TH-1 through TH-8). Based on the field screening results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On May 4, 2012, AES returned to the location to collect confirmation soil samples from 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. The final excavation was approximately 53 feet by 41 feet by 8 feet in depth. The base of the excavation was limited by competent sandstone at 8 feet bgs. Sample locations and final excavation extents are shown on Figure 4.

2.0 Soil Sampling

A total of 15 soil samples and 5 composite soil samples 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). Samples TH-2, SC-1, and SC-3 from the confirmation sampling of the excavation were submitted for 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 soil samples (TH-2, SC-1, and SC-3) 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 or 8260B.

2.2 Field Screening and Laboratory Analytical Results

On April 24, 2012, assessment field screening results for VOCs via OVM showed concentrations ranging from 3.8 ppm in TH-6 up to 4,502 ppm in TH-2. Field TPH concentrations ranged from 61.0 mg/kg in TH-6 up to 9,860 mg/kg in TH-5.

On May 4, 2012, final excavation field screening results for VOCs via OVM showed concentrations ranging from 3.3 ppm in SC-5 to 4,350 ppm in SC-2. Field TPH concentrations ranged from 90.7 mg/kg in SC-4 up to 4,400 mg/kg in SC-3. 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
 San Juan 29-5 #7A Release Assessment and Final Excavation
 April and May 2012

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
<i>NMOCD Action Level*</i>			100	1,000
S-1	4/24/12	8	2,835	802
S-2	4/24/12	6	47.8	69.6
S-3	4/24/12	6	2,853	7,670
S-4	4/24/12	6	4,473	1,180
S-5	4/24/12	6	10.5	104
TH-1	4/24/12	4	3,337	7,840
TH-2	4/24/12	4	4,502	217
TH-3	4/24/12	4	6.7	NA
TH-4	4/24/12	2	88.3	91.6
TH-5	4/24/12	4	3,420	9,860
		7	3,628	NA
TH-6	4/24/12	4	10.8	NA
		7	3.8	61.0
TH-7	4/24/12	4	5.0	94.0
TH-8	4/24/12	5.5	4.4	164
SC-1	5/4/12	1 to 8	1,055	146
SC-2	5/4/12	1 to 8	4,350	1,370
SC-3	5/4/12	8	4,276	4,400
SC-4	5/4/12	1 to 8	55.4	90.7
SC-5	5/4/12	1 to 8	3.3	291

NA – Not Analyzed

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

Laboratory results for TH-2 collected on April 24, 2012, were used to confirm field screening results from the release assessment. The benzene concentration was reported at less than 0.22 mg/kg. Total BTEX was reported at 15.6 mg/kg. Laboratory analytical results for SC-1 and SC-3 were used to confirm field screening results during excavation activities on May 24, 2012. Reported benzene for SC-1 and SC-3 were less

than 0.050 mg/kg and 0.43 mg/kg, respectively. Total BTEX concentrations were reported at 0.13 mg/kg in SC-1 and 145 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 and BTEX
 San Juan 29-5 #7A Release Assessment and Final Excavation
 April and May 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>NMOCD Action Level*</i>			<i>10</i>	<i>50</i>
TH-2	4/24/12	4	<0.12	15.6
SC-1	5/4/12	1 to 8	<0.050	0.13
SC-3	5/4/12	8	0.43	145

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

3.0 Potassium Permanganate Application

On May 16, 2012, AES along with Alpha Bioscience and CoP contractors arrived on site to apply a 3 percent solution of potassium permanganate (KMNO₄) into the open excavation at the San Juan 29-5 #7A. Due to the presence of competent sandstone at 8 feet bgs, removal of contamination at the base of the excavation to below the NMOCD action level of 50 mg/kg for BTEX was not achieved. In consultation with NMOCD, an area of approximately 2,310 square feet was treated with 431 gallons of water and 107 pounds of KMNO₄ (3 percent solution)

4.0 Conclusions and Recommendations

On April 24, 2012, AES conducted a release assessment of an existing excavation associated with a historical release discovered during BGT removal at the location in November 2011. 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 showed concentrations above the NMOCD action levels of 100 ppm VOCs in S-3, S-4, TH-1, and TH-5, with the highest VOC concentration in TH-2 (4,502 ppm). Field screening of TPH exceeded the NMOCD action level of 1,000 mg/kg in S-3, S-4, TH-1, and TH-5, with the highest concentration reported in TH-5 (9,860 mg/kg). Laboratory analytical results for TH-2 reported total BTEX concentrations below the NMOCD action level of 50 mg/kg.

On May 4, 2012, final assessment of the additional excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were reported above the applicable NMOCD action levels in SC-2 (4,350 ppm) and SC-3 (4,276 ppm). The field TPH reported in SC-2 (1,370 mg/kg) and SC-3 (4,400 mg/kg) also exceeded the NMOCD action level of 1,000 mg/kg. Analytical results showed that benzene concentrations were below the NMOCD action level of 10 mg/kg in SC-2 and SC-3; however total BTEX concentrations exceeded the NMOCD action level of 50 mg/kg in SC-3 with 145 mg/kg. Based on field screening and laboratory results, additional mitigation was recommended for the east wall and base of the excavation due to the presence of the pipeline and competent sandstone layer, respectively.

On May 16, 2012, per CoP and NMOCD recommendation, a 3 percent solution of KMNO_4 was applied to the walls and base of the excavation to enhance biodegradation of residual petroleum hydrocarbons.

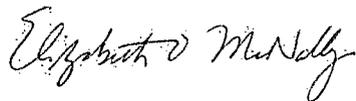
Based on the final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 29-5 #7A, benzene, total BTEX, VOC and TPH concentrations along the north, east, west, and south walls were below applicable NMOCD action levels. Further mitigation of the base (i.e. application of KMNO_4 solution) was completed in consultation with NMOCD. No further work is recommended.

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

Sincerely,



Landrea Cupps
Environmental Scientist

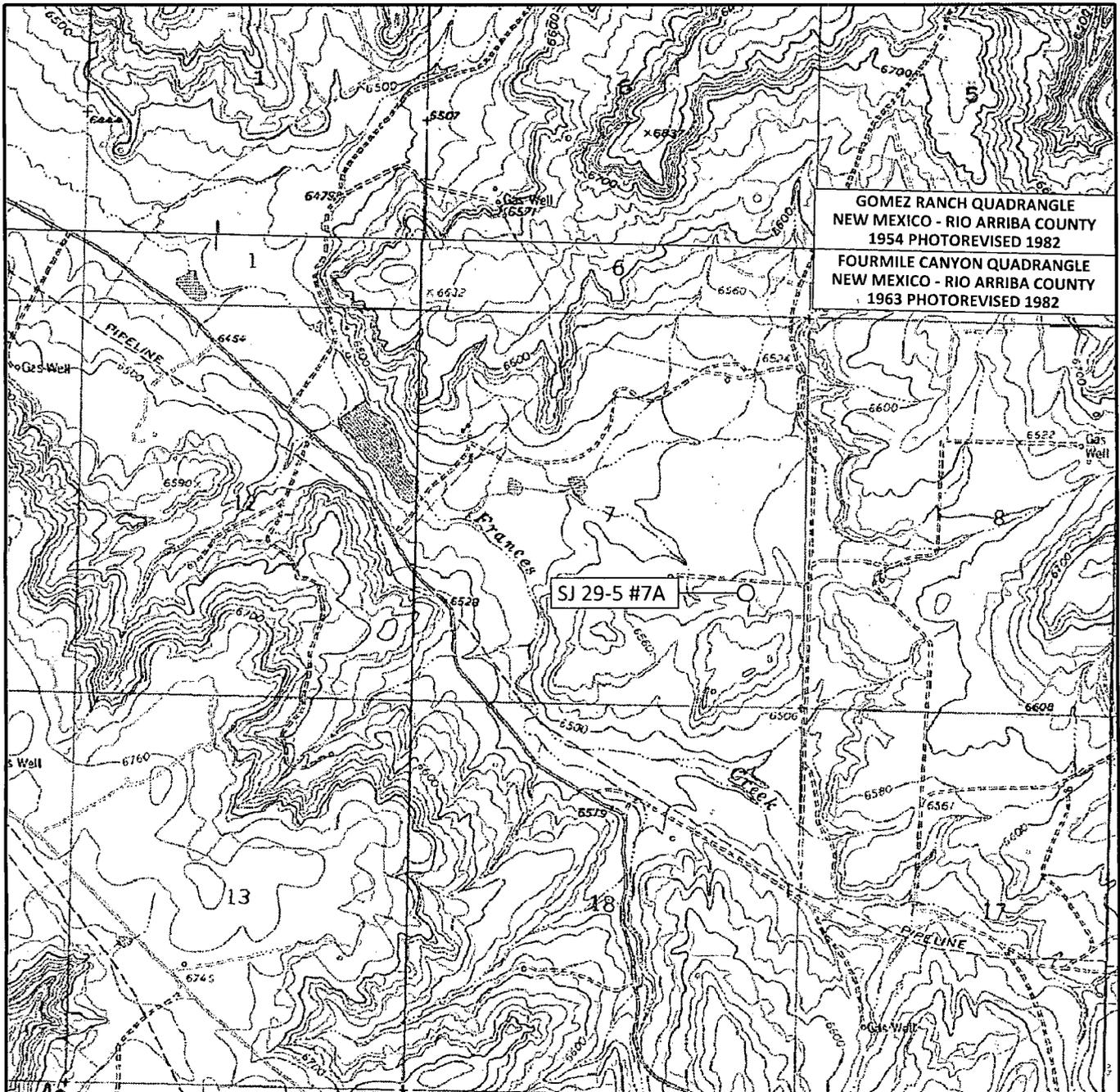


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. General Site Map, April 2012
- Figure 3. Release Assessment Soil Sample Locations and Results, April 2012
- Figure 4. Final Excavation Soil Sample Locations and Results, May 2012
- AES Field Screening Report 042412
- AES Field Screening Report 050412
- Hall Laboratory Analytical Report 1204A03
- Hall Laboratory Analytical Report 1205271

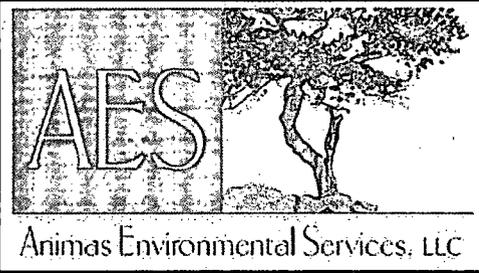
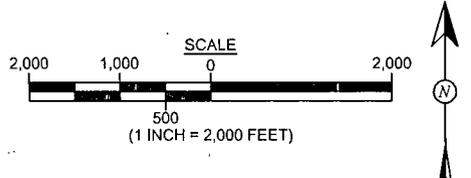
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GOMEZ RANCH QUADRANGLE
 NEW MEXICO - RIO ARriba COUNTY
 1954 PHOTOREVISED 1982

FOURMILE CANYON QUADRANGLE
 NEW MEXICO - RIO ARriba COUNTY
 1963 PHOTOREVISED 1982

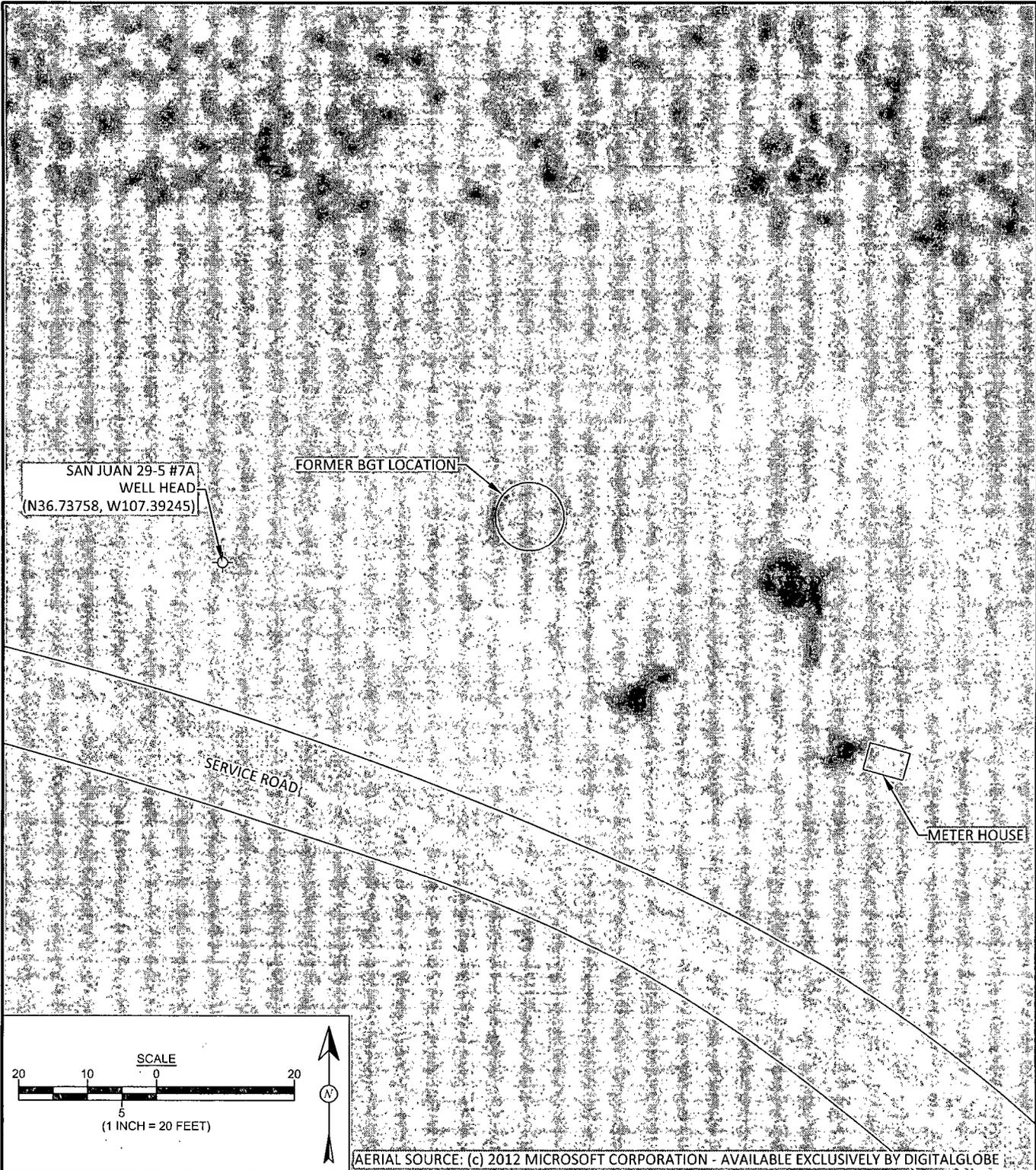
SJ 29-5 #7A



DRAWN BY: C. Lameman	DATE DRAWN: April 25, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 25, 2012
CHECKED BY: R. Kennemer	DATE CHECKED: April 25, 2012
APPROVED BY: E. McNally	DATE APPROVED: April 25, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 SAN JUAN 29-5 #7A
 RIO ARriba COUNTY, NEW MEXICO
 NE¼, SE¼, SECTION 7, T29N, R5W
 N36.73758, W107.39245



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: April 25, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 19, 2012
CHECKED BY: D. Watson	DATE CHECKED: October 19, 2012
APPROVED BY: E. McNally	DATE APPROVED: October 19, 2012

FIGURE 2

AERIAL SITE MAP
 ConocoPhillips
 SAN JUAN 29-5 #7A
 RIO ARRIBA COUNTY, NEW MEXICO
 NE¼ SE¼, SECTION 7, T29N, R5W
 N36.73758, W107.39245

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Field TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
S-1	4/24/12	8	2,835	802
S-2	4/24/12	6	47.8	69.6
S-3	4/24/12	6	2,853	7,670
S-4	4/24/12	6	4,473	1,180
S-5	4/24/12	6	10.5	104
TH-1	4/24/12	4	3,337	7,840
TH-2	4/24/12	4	4,502	217
TH-3	4/24/12	4	6.7	NA
TH-4	4/24/12	2	88.3	91.6
TH-5	4/24/12	4	3,420	9,860
		7	3,628	NA
TH-6	4/24/12	4	10.8	NA
		7	3.8	61.0
TH-7	4/24/12	4	5.0	94.0
TH-8	4/24/12	5.5	4.4	164

NA - NOT ANALYZED

Laboratory Analytical Results				
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD ACTION LEVEL			10	50
TH-2	4/24/12	4	<0.12	16

SAMPLE WAS ANALYZED PER EPA METHOD 80218.

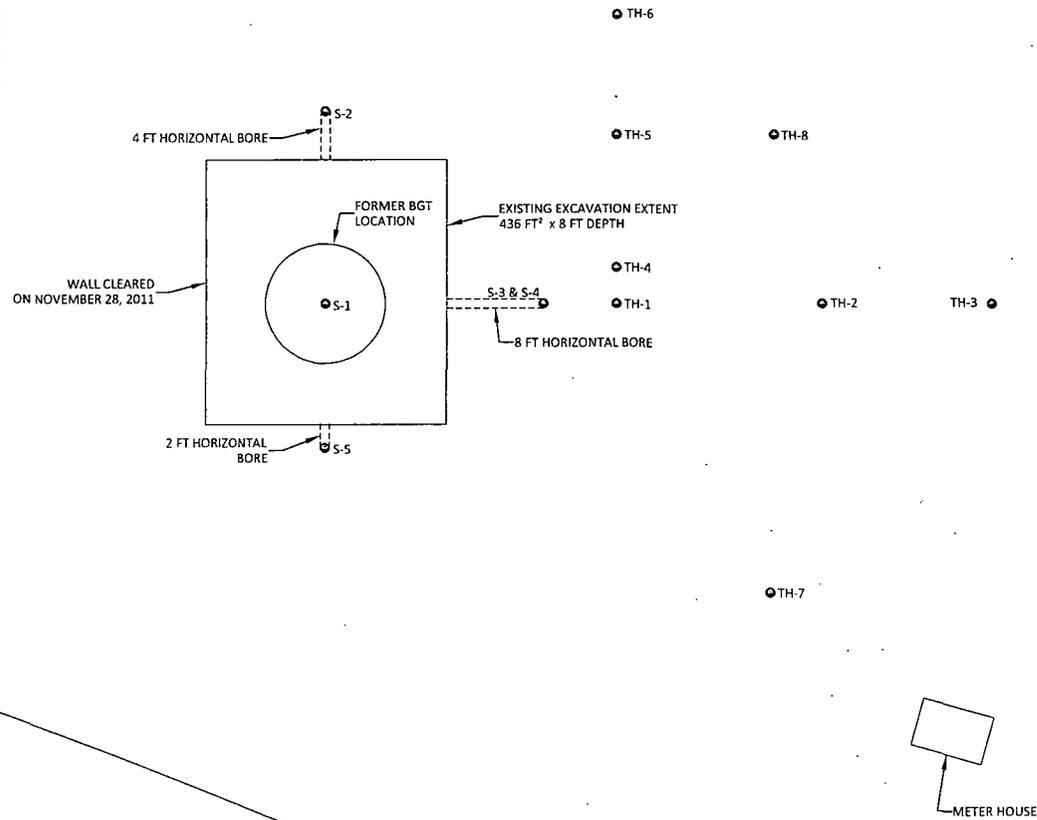


FIGURE 3

INITIAL ASSESSMENT SAMPLING LOCATIONS AND RESULTS APRIL 2012
 ConocoPhillips
 SAN JUAN 29-5 #7A
 RIO ARriba COUNTY, NEW MEXICO
 NE¼ SE¼, SECTION 7, T29N, R5W
 N36.73758, W107.39245



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: April 25, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 19, 2012
CHECKED BY: D. Watson	DATE CHECKED: October 19, 2012
APPROVED BY: E. McNally	DATE APPROVED: October 19, 2012

LEGEND

● TEST HOLE LOCATION

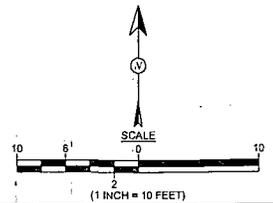


FIGURE 4

**FINAL EXCAVATION SOIL
SAMPLE LOCATIONS AND RESULTS
MAY 2012**
 ConocoPhillips
 SAN JUAN 29-5 #7A
 RIO ARriba COUNTY, NEW MEXICO
 NE¼ SE¼ SECTION 7, T29N, R5W
 N36.73758, W107.39245



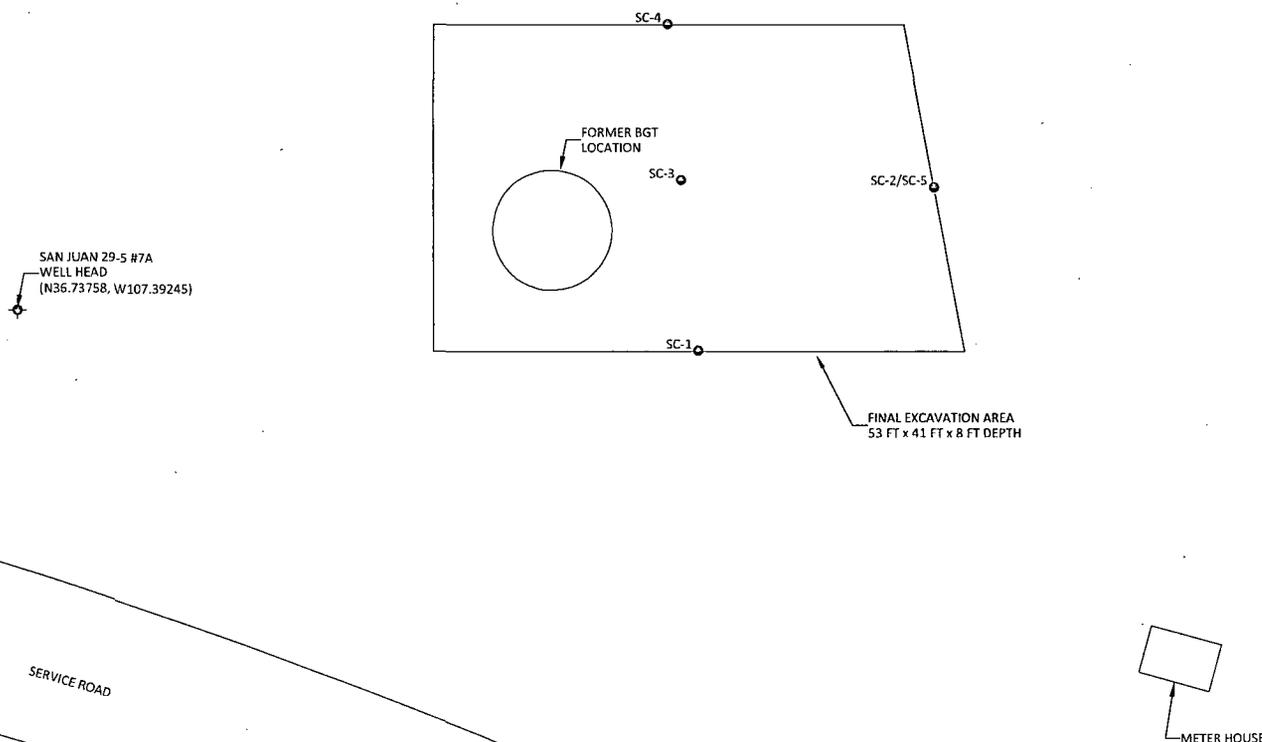
Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 19, 2012
REVISIONS BY: C. Lameman	DATE REVISED: October 19, 2012
CHECKED BY: D. Watson	DATE CHECKED: October 19, 2012
APPROVED BY: E. McNally	DATE APPROVED: October 19, 2012

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Field TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-1	5/4/12	1 to 8	1,055	146
SC-2	5/4/12	1 to 8	4,350	1,370
SC-3	5/4/12	8	4,276	4,400
SC-4	5/4/12	1 to 8	55	90.7
SC-5	5/4/12	1 to 8	3.3	291

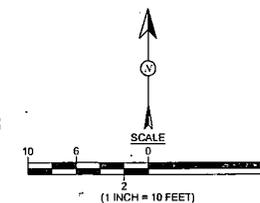
Laboratory Analytical Results				
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD ACTION LEVEL			10	50
SC-1	5/4/12	1 to 8	<0.050	0.13
SC-3	5/4/12	8	0.43	145

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8260B.



LEGEND

● SAMPLE LOCATIONS



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: San Juan 29-5 #7A

Date: 4/24/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	4/24/2012	11:30	2,835	12:00	802	20.0	1	TCR
S-2	4/24/2012	11:43	47.8	12:40	69.6	20.0	1	TCR
S-3	4/24/2012	12:25	2,853	12:52	7,670	200	10	TCR
S-4	4/24/2012	13:05	4,473	13:36	1,180	20.0	1	TCR
S-5	4/24/2012	13:28	10.5	14:00	104	20.0	1	TCR
TH-1	4/24/2012	14:27	3337	14:58	7,840	200	10	TCR
TH-2	4/24/2012	15:00	4502	15:25	217	20.0	1	TCR
TH-3	4/24/2012	15:26	6.7	Not Analyzed for TPH				
TH-4	4/24/2012	15:43	88.3	16:20	91.6	20.0	1	TCR
TH-5	4/24/2012	16:07	3420	16:39	9,860	200	10	TCR
TH-5@7'	4/24/2012	16:24	3628	Not Analyzed for TPH				
TH-6	4/24/2012	17:10	10.8	Not Analyzed for TPH				
TH-6@7'	4/24/2012	17:20	3.8	17:40	61.0	20.0	1	TCR

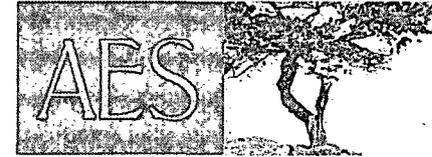
Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-7	4/24/2012	17:37	5.0	17:35	94.0	20.0	1	TCR
TH-8	4/24/2012	18:00	4.4	18:33	164	20.0	1	TCR

Total Petroleum Hydrocarbons - USEPA 418.1
PQL Practical Quantitation Limit
ND Not Detected at the Reporting Limit
DF Dilution Factor
NA Not Analyzed

Analyst:

Jami Ross

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: San Juan 29-5 #7A

Date: 5/4/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	OMV (ppm)	Time of Sample Analysis	Field TPH (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	5/4/2012	9:40	1,055	10:31	146	20.0	1	TCR
SC-2	5/4/2012	9:43	4,350	10:41	1,370	20.0	1	TCR
SC-3	5/4/2012	9:45	4,276	10:50	4,400	200	10	TCR
SC-4	5/4/2012	9:47	55	10:44	90.7	20.0	1	TCR
SC-5	5/4/2012	11:19	3.3	11:34	291	20.0	1	TCR

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst:

Jamie Ross



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

April 30, 2012

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-1776
FAX (505) 324-2022

RE: SJ 29-5 #7A

OrderNo.: 1204A03

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/26/2012 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.

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 1204A03

Date Reported: 4/30/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TH-2

Project: SJ 29-5 #7A

Collection Date: 4/24/2012 3:00:00 PM

Lab ID: 1204A03-001

Matrix: MEOH (SOIL)

Received Date: 4/26/2012 9:58:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	4/26/2012 11:25:52 AM
Toluene	0.63	0.25		mg/Kg	5	4/26/2012 11:25:52 AM
Ethylbenzene	0.92	0.25		mg/Kg	5	4/26/2012 11:25:52 AM
Xylenes, Total	14	0.50		mg/Kg	5	4/26/2012 11:25:52 AM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	5	4/26/2012 11:25:52 AM

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



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87106
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1204A03**

Received by/date: *[Signature]* **04/26/12**
 Logged By: **Ashley Gallegos** **4/26/2012 9:58:00 AM** *[Signature]*
 Completed By: **Ashley Gallegos** **4/26/2012 10:00:47 AM** *[Signature]*
 Reviewed By: *[Signature]* **04/26/12**

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No # 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: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			



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

May 08, 2012

Tami Ross

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 793-2072
FAX

RE: SJ 29-5 #7A

OrderNo.: 1205271

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/5/2012 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.

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", written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: SJ 29-5 #7A

Collection Date: 5/4/2012 9:40:00 AM

Lab ID: 1205271-001

Matrix: SOIL

Received Date: 5/5/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	ND	0.050		mg/Kg	1	5/7/2012 1:04:31 PM
Toluene	ND	0.050		mg/Kg	1	5/7/2012 1:04:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/7/2012 1:04:31 PM
Xylenes, Total	0.13	0.10		mg/Kg	1	5/7/2012 1:04:31 PM
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%REC	1	5/7/2012 1:04:31 PM
Surr: 4-Bromofluorobenzene	82.3	70-130		%REC	1	5/7/2012 1:04:31 PM
Surr: Dibromofluoromethane	88.3	71.7-132		%REC	1	5/7/2012 1:04:31 PM
Surr: Toluene-d8	87.6	70-130		%REC	1	5/7/2012 1:04:31 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

Analytical Report

Lab Order 1205271

Date Reported: 5/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: SJ 29-5 #7A

Collection Date: 5/4/2012 9:45:00 AM

Lab ID: 1205271-002

Matrix: SOIL

Received Date: 5/5/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: BDH
Benzene	0.43	0.25		mg/Kg	5	5/7/2012 10:16:16 AM
Toluene	19	0.25		mg/Kg	5	5/7/2012 10:16:16 AM
Ethylbenzene	5.4	0.25		mg/Kg	5	5/7/2012 10:16:16 AM
Xylenes, Total	120	5.0		mg/Kg	50	5/7/2012 1:34:27 PM
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%REC	5	5/7/2012 10:16:16 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	5	5/7/2012 10:16:16 AM
Surr: Dibromofluoromethane	95.4	71.7-132		%REC	5	5/7/2012 10:16:16 AM
Surr: Toluene-d8	90.2	70-130		%REC	5	5/7/2012 10:16:16 AM

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205271

08-May-12

Client: Animas Environmental Services

Project: SJ 29-5 #7A

Sample ID: 5mL rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R2603	RunNo: 2603								
Prep Date:	Analysis Date: 5/7/2012	SeqNo: 72499			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	0.46		0.5000		93.0	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		77.7	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.7	71.7	132			
Surr: Toluene-d8	0.43		0.5000		85.9	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R2603	RunNo: 2603								
Prep Date:	Analysis Date: 5/7/2012	SeqNo: 72500			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.3	70.7	123			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.4	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.7	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.7	71.7	132			
Surr: Toluene-d8	0.41		0.5000		81.7	70	130			

Sample ID: 1205271-001ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SC-1	Batch ID: R2603	RunNo: 2603								
Prep Date:	Analysis Date: 5/7/2012	SeqNo: 72677			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.050	0.5883	0	104	81.3	119			
Toluene	0.61	0.050	0.5883	0	104	75	121			
Surr: 1,2-Dichloroethane-d4	0.28		0.2942		93.6	70	130			
Surr: 4-Bromofluorobenzene	0.25		0.2942		85.1	70	130			
Surr: Dibromofluoromethane	0.26		0.2942		87.9	71.7	132			
Surr: Toluene-d8	0.26		0.2942		87.5	70	130			

Sample ID: 1205271-001amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SC-1	Batch ID: R2603	RunNo: 2603								
Prep Date:	Analysis Date: 5/7/2012	SeqNo: 72678			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.59	0.050	0.5883	0	101	81.3	119	3.43	15.7	
Toluene	0.58	0.050	0.5883	0	98.1	75	121	5.55	16.2	
Surr: 1,2-Dichloroethane-d4	0.29		0.2942		98.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.26		0.2942		86.7	70	130	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#: 1205271

08-May-12

Client: Animas Environmental Services

Project: SJ 29-5 #7A

Sample ID	1205271-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	SC-1	Batch ID:	R2603	RunNo:	2603					
Prep Date:		Analysis Date:	5/7/2012	SeqNo:	72678	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.26		0.2942		87.5	71.7	132	0	0	
Surr: Toluene-d8	0.26		0.2942		86.8	70	130	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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1205271
 Received by/date: AT 05/05/12
 Logged By: Anne Thorne 5/5/2012 10:00:00 AM *Anne Thorne*
 Completed By: Anne Thorne 5/7/2012 *Anne Thorne*
 Reviewed By: TO 05/07/12

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: eMail Phone Fax 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			

