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 **Lisa Hunter**
Address **3401 E. 30th Street, Farmington, NM 87402**	Telephone No. **505-326-9786**
Facility Name **San Juan 29-5 Unit 80**	Facility Type **Gas Well**

Surface Owner **Federal**	Mineral Owner **Federal**	API No. **3003921454**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	**23**	**29N**	**05W**	**1740'**	**North**	**1460'**	**East**	**Rio Arriba**

Latitude 36.7134514 Longitude -107.32240

NATURE OF RELEASE

Type of Release **Historic Below Grade Tank Release**	Volume of Release **Unknown**	Volume Recovered **484 yds**
Source of Release **Below Grade Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **December 20, 2012**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	RCVD SEP 5 '13
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	OIL CONS. DIV. DIST. 3

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

The Below Grade Tank historic release was discovered during a BGT Closure.

Describe Area Affected and Cleanup Action Taken.*

Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 38' x 42' x 7' in depth, and 484 yds of soil was transported to IEI land farm and 484 yds of clean soil was transported from Aztec Machine Company and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: **Lisa M. Hunter**	Approved by Environmental Specialist:
Title: **Field Environmental Specialist**	Approval Date: 9/11/2013 Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval: Attached ☐
Date: **September 4, 2013** Phone: **505-326-9786**	

* Attach Additional Sheets If Necessary

nJK1325437905

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

August 7, 2013

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-04
5525 Hwy 64
Farmington, New Mexico 87401

Via electronic mail to: SJBUE-Team@ConocoPhillips.com

RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report
San Juan 29-5 #80 Southeast BGT
Rio Arriba County, New Mexico

Dear Ms. Hunter:

On December 20, 2012, and April 4, May 17, May 21,and May 28, 2013, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, an initial release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 29-5 #80 Southeast BGT, located in Rio Arriba County, New Mexico. The historical release was discovered during BGT closure sampling at the location. An initial release assessment was completed on April 4, 2013. Final excavation sampling was completed on May 28, 2013.

1.0 Site Information

1.1 Location

Site Name – San Juan 29-5 #80 Southeast BGT
Legal Description - SW¼ NE¼, Section 23, T29N, R5W, Rio Arriba County, New Mexico
Well Latitude/Longitude – N36.71338 and W107.32284, respectively
BGT/Release Latitude/Longitude - N36.71330 and W107.32272, respectively
Land Jurisdiction - Bureau of Land Management (BLM)
Figure 1 - Topographic Site Location Map
Figure 2 - Aerial Site Map, December 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and cathodic report dated February 1992 for the San Juan 29-5 #80 reported

the depth to groundwater as greater than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. La Jara Canyon is located approximately 600 feet northeast of the location. Based on this information, the location was assessed a ranking score of 10.

1.3 Assessments

AES was initially contacted by Ashley Maxwell, CoP representative, on December 11, 2012, for BGT closure sampling at the location. On December 20, 2012, Deborah Watson and Heather Woods of AES traveled to the location and collected five soil samples from below the BGT. Four samples were collected from the perimeter of the BGT footprint, and one sample was composited from the four perimeter samples. Sample locations are included on Figure 2.

On April 4, 2013, AES personnel returned to the location to complete the release assessment field work. The assessment included collection and field screening of 37 soil samples from 9 soil borings (SB-1 through SB-9). Based on field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On May 17, 2013, AES personnel 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. The final excavation measured approximately 1,340 square feet by 7 to 8 feet in depth. The depth of the excavation was limited by a confining sandstone layer. Based on field screening results and the presence of the confining sandstone layer, BLM recommended that the excavation be left open in order for residual petroleum hydrocarbons to volatilize. AES returned to collect additional confirmation samples from the base of the excavation on May 21 and May 28, 2013. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

On December 20, 2012, during BGT closure sampling, AES personnel conducted field screening and collected four soil samples (S-1 through S-4) and one 4-point composite (SC-1) from below the BGT. Surface soil samples were collected from the former BGT for field screening of volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chlorides. A composite sample (BGT SC-1) was collected for confirmation laboratory analysis.

A total of 37 soil samples (SB-1 through SB-9) and 8 composite samples (SC-1 through SC-8) were collected during the release and excavation assessments. All soil samples were field screened for VOCs, and selected samples were analyzed for TPH. One discrete sample (SB-3) and two composite samples (SC-6 and SC-7) collected during the assessments were submitted for confirmation laboratory analysis.

2.1 Soil Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors 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

Soil samples were also analyzed in the field for TPH 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*.

2.1.3 Chlorides

Soil sample BGT SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The 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 USEPA Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

The soil sample (BGT SC-1) collected on December 20, 2012, was also analyzed for:

- Chlorides per USEPA Method 300.0.

2.3 Soil Field and Laboratory Analytical Results

On December 20, 2012, BGT closure field screening readings for VOCs via OVM ranged from 0.0 ppm in S-3 up to 3.2 ppm in S-1. Field TPH concentrations ranged from 107 mg/kg in S-4 to greater than 2,500 mg/kg in S-1. The field chloride concentration in BGT SC-1 was reported at 80 mg/kg.

On April 4, 2013, initial assessment field screening readings for VOCs via OVM ranged from 2.8 ppm in SB-8 up to 4,245 ppm in SB-6. Field TPH concentrations ranged from 37.1 mg/kg in SB-3 and SB-4 to 4,960 mg/kg in SB-2.

On May 17, 2013, final excavation field screening results for VOCs via OVM ranged from 12.7 ppm in SC-4 up to 6,945 ppm in SC-6. Field TPH concentrations ranged from 47.5 mg/kg in SC-5 to 1,880 mg/kg in SC-6. On May 21, 2013, field screening concentrations in SC-7 were 3,564 ppm VOCs and 1,180 mg/kg TPH. On May 28, 2013, VOC and TPH concentrations were 571 ppm and 501 mg/kg, respectively. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 through 4. The AES field screening reports are attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
San Juan 29-5 #80 Southeast
BGT Closure, Release Assessment, and Final Excavation Report
December 2012, April and May, 2013

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Chloride (mg/kg)
NMOCD Action Level*			100	100/ 1,000	250
S-1	12/20/12	0.5	3.2	**>2,500**	NA
S-2	12/20/12	0.5	0.4	**1,730**	NA
S-3	12/20/12	0.5	0.0	**1,540**	NA
S-4	12/20/12	0.5	0.1	**107**	NA
BGT SC-1	12/20/12	0.5	NA	NA	80
SB-1	4/4/13	2	10.4	NA	NA
		4	**2,837**	NA	NA
		6	**3,522**	NA	NA
		8	**3,638**	**2,200**	NA
SB-2	4/4/13	Surface	35.5	NA	NA
		2	7.5	NA	NA
		4	3.8	NA	NA
		6	**3,677**	NA	NA
		8	**2,910**	**4,960**	NA
SB-3	4/4/13	Surface	53.4	37.1	NA
		2	6.2	NA	NA
		4	4.2	NA	NA
		6	9.2	69.2	NA
		7	**2,992**	**1,600**	NA
SB-4	4/4/13	Surface	6.2	NA	NA
		2	5.5	NA	NA
		4	5.6	NA	NA
		6	3.6	NA	NA
		7	5.1	37.1	NA
SB-5	4/4/13	Surface	5.8	NA	NA
		2	**416**	109	NA

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Chloride (mg/kg)
NMOCD Action Level*			100	100/ 1,000	250
SB-6	4/4/13	Surface	9.0	NA	NA
		2	**4,245**	NA	NA
		4	**4,194**	NA	NA
		5	**3,929**	**1,790**	NA
SB-7	4/4/13	Surface	44.4	NA	NA
		1	4.8	NA	NA
SB-8	4/4/13	Surface	4.1	NA	NA
		2	2.8	NA	NA
		4	6.0	NA	NA
		6	18.7	NA	NA
		6.5	19.6	42.0	NA
SB-9	4/4/13	Surface	4.7	NA	NA
		2	3.7	NA	NA
		4	4.6	NA	NA
		6	2.9	NA	NA
		6.5	51.2	104	NA
SC-1	5/17/13	1 to 8	92.4	51.3	NA
SC-2	5/17/13	1 to 8	**283**	302	NA
SC-3	5/17/13	1 to 8	19.7	52.5	NA
SC-4	5/17/13	1 to 8	12.7	81.4	NA
SC-5	5/17/13	1 to 8	13.7	47.5	NA
SC-6	5/17/13	7 to 8	**6,945**	**1,880**	NA
SC-7	5/21/13	7 to 8	**3,564**	**1,180**	NA
SC-8	5/28/13	7 to 8	**571**	501	NA

NA – not analyzed
*Action levels determined by the NMOCD ranking score per NMAC 19.15.17.13E and *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

Laboratory analytical results for BGT SC-1 collected on December 20, 2012, from the former BGT, showed that benzene and total BTEX concentrations were reported below laboratory detection limits of 0.050 mg/kg and 0.25 mg/kg, respectively. TPH

concentrations were reported below the laboratory detection limit of 5.0 mg/kg GRO and at 1,600 mg/kg DRO. The chloride concentration was below the laboratory detection limit of 7.5 mg/kg.

On April 4, 2013, during the initial assessment, laboratory analytical results for SB-3 had a benzene concentration reported below the laboratory detection limit of 0.47 mg/kg. The total BTEX concentration was 4.0 mg/kg. The TPH concentration as GRO/DRO was 1,084 mg/kg.
On May 17, 2013, laboratory analytical results for SC-6 from the base of the final excavation, had a benzene concentration of 1.4 mg/kg, and the total BTEX concentration was 128 mg/kg. The TPH concentration as GRO/DRO was 2,780 mg/kg. On May 21, 2013, SC-7 was collected from the base of the final excavation and had a benzene concentration below the laboratory detection limit of 0.50 mg/kg. The total BTEX concentration was reported at 54 mg/kg, and the TPH concentration as GRO/DRO was 1,560 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figures 2 through 4. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides
San Juan 29-5 #80 Southeast
BGT Closure, Release Assessment, and Final Excavation Report
December 2012, April and May, 2013

Sample ID	*Date*	*Depth (ft)*	*Benzene (mg/kg)*	*Total BTEX (mg/kg)*	*TPH-GRO (mg/kg)*	*TPH-DRO (mg/kg)*	*Chlorides (mg/kg)*
NMOCD Action Level*			***0.2/10***	***50***	***100/1,000***		***250***
BGT SC-1	12/20/12	Surface	<0.050	<0.25	**<5.0**	**1,600**	<7.5
SB-3	4/4/13	7	<0.47	4.0	**1,000**	**84**	NA
SC-6	5/17/13	7 to 8	1.4	**128**	**2,200**	**580**	NA
SC-7	5/21/13	7 to 8	<0.50	**54**	**990**	**570**	NA

*Action levels determined by the NMOCD ranking score per NMAC 19.15.17.13E and *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in four samples (S-1 through S-4). Laboratory analytical results for TPH in SC-1 were reported above the NMOCD action level of 100 mg/kg with 1,600 mg/kg DRO. However, benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations were also

reported below the NMOCD action level of 250 mg/kg. Based on field and laboratory analytical results for TPH, a release was confirmed at the location.

On April 4, 2013, AES conducted an initial assessment associated with a historical release discovered during BGT closure confirmation sampling. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking of 10. Field screening results for VOCs via OVM were above the NMOCD action level of 100 ppm in SB-1, SB-2, SB-3, SB-5, and SB-6, with the highest concentration of 4,245 ppm reported in SB-6. Field TPH concentrations above the NMOCD action level of 1,000 mg/kg were reported in SB-1, SB-2, SB-3, and SB-6. Note that SB-7 was not field screened for TPH, because it was inferred to be below action levels.

On May 17, 2013, an assessment of the final excavation area was completed. Field screening results of the excavation showed that concentrations of VOCs and TPH were below NMOCD action levels for each of the final sidewalls of the excavation, with the exception of the southeast wall portion, which exceeded the NMOCD action level of 100 ppm VOCs with a concentration of 283 ppm. The base of the excavation (SC-6) also exceeded NMOCD action levels for VOCs with 6,945 ppm and TPH with 1,880 mg/kg. Laboratory analytical results for SC-6 (base) showed benzene concentrations below applicable NMOCD action levels. However, total BTEX concentrations exceeded the NMOCD action level of 50 mg/kg with 128 mg/kg. Additionally, TPH concentrations as GRO/DRO exceeded the NMOCD action level of 100 mg/kg with 2,780 mg/kg in SC-6. Further excavation of the base was not possible due to a competent layer of sandstone encountered at 7 to 8 feet bgs.

CoP consulted with Mark Kelly of BLM and was instructed to leave the excavation open and resample at a later date. On May 21, 2013, AES returned to the location and collected sample SC-7 from the base of the excavation. Field screening results for SC-7 reported VOC and TPH concentrations of 3,564 ppm and 1,180 mg/kg, respectively. Laboratory analytical results for SC-7 reported the benzene concentration below the laboratory detection limit of 0.50 mg/kg, a total BTEX concentration of 54 mg/kg, and TPH as GRO/DRO at 1,560 mg/kg.

AES again returned to the location on May 28, 2013, and collected sample SC-8 from the base of the excavation. Field screening results for SC-8 reported a VOC concentration of 571 ppm and a TPH concentration of 501 mg/kg. CoP received approval from Mark Kelly of BLM to backfill based on the May 28, 2013, field screening results, and the excavation was backfilled on May 29, 2013. No further work is recommended for the San Juan 29-5 #80 Southeast BGT.

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

Sincerely,

Landrea R. Cupps

Landrea Cupps
Environmental Scientist

Elizabeth D McNally

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, December 2012
Figure 3. Initial Assessment Sample Locations and Results, April 2013
Figure 4. Final Excavation Sample Locations and Results, May 2013
AES Field Screening Reports (122012, 040413, 051713, 052113, 052813)
Hall Analytical Reports (1212992, 1304241, 1305761, and 1305872)

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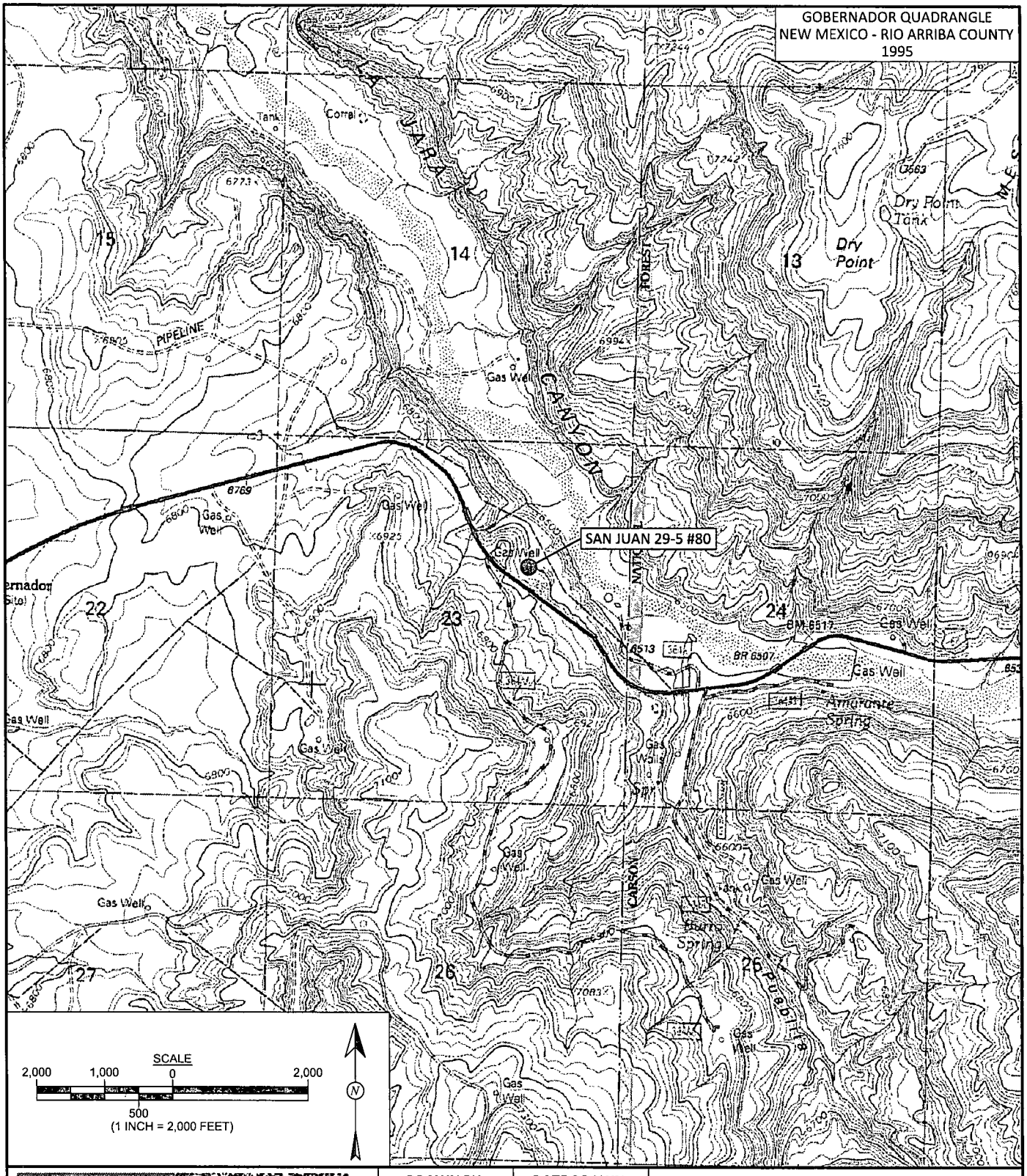


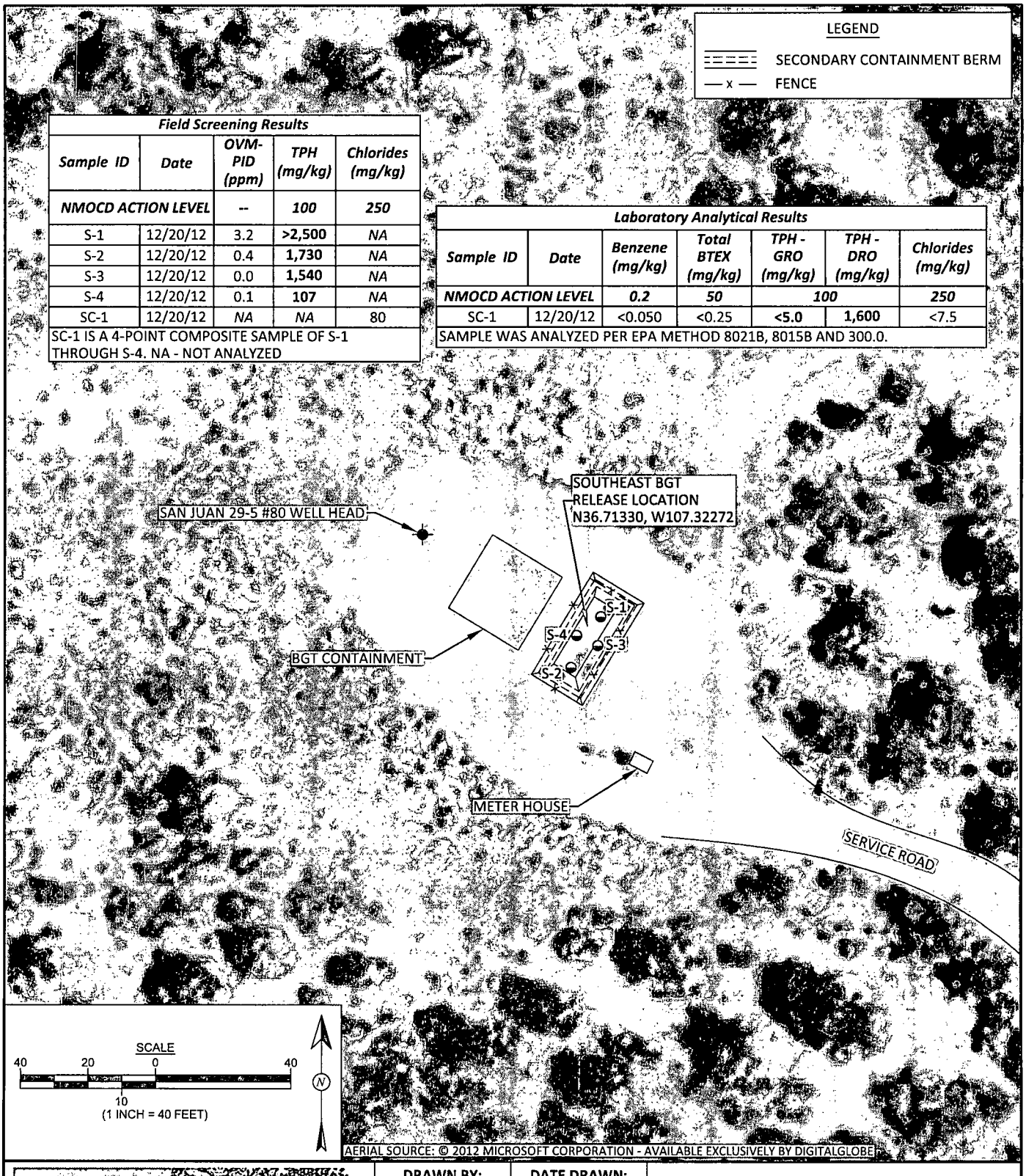
DRAWN BY: C. Lameman	**DATE DRAWN:** April 5, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** April 5, 2013
CHECKED BY: D. Watson	**DATE CHECKED:** April 5, 2013
APPROVED BY: E. McNally	**DATE APPROVED:** April 5, 2013

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 29-5 #80
SW¼ NE¼, SECTION 23, T29N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.71338, W107.32284

AES
Animas Environmental Services, LLC



Field Screening Results

Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		--	100	250
S-1	12/20/12	3.2	>2,500	NA
S-2	12/20/12	0.4	1,730	NA
S-3	12/20/12	0.0	1,540	NA
S-4	12/20/12	0.1	107	NA
SC-1	12/20/12	NA	NA	80

SC-1 IS A 4-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-4. NA - NOT ANALYZED

Laboratory Analytical Results

Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	100		250
SC-1	12/20/12	<0.050	<0.25	<5.0	1,600	<7.5

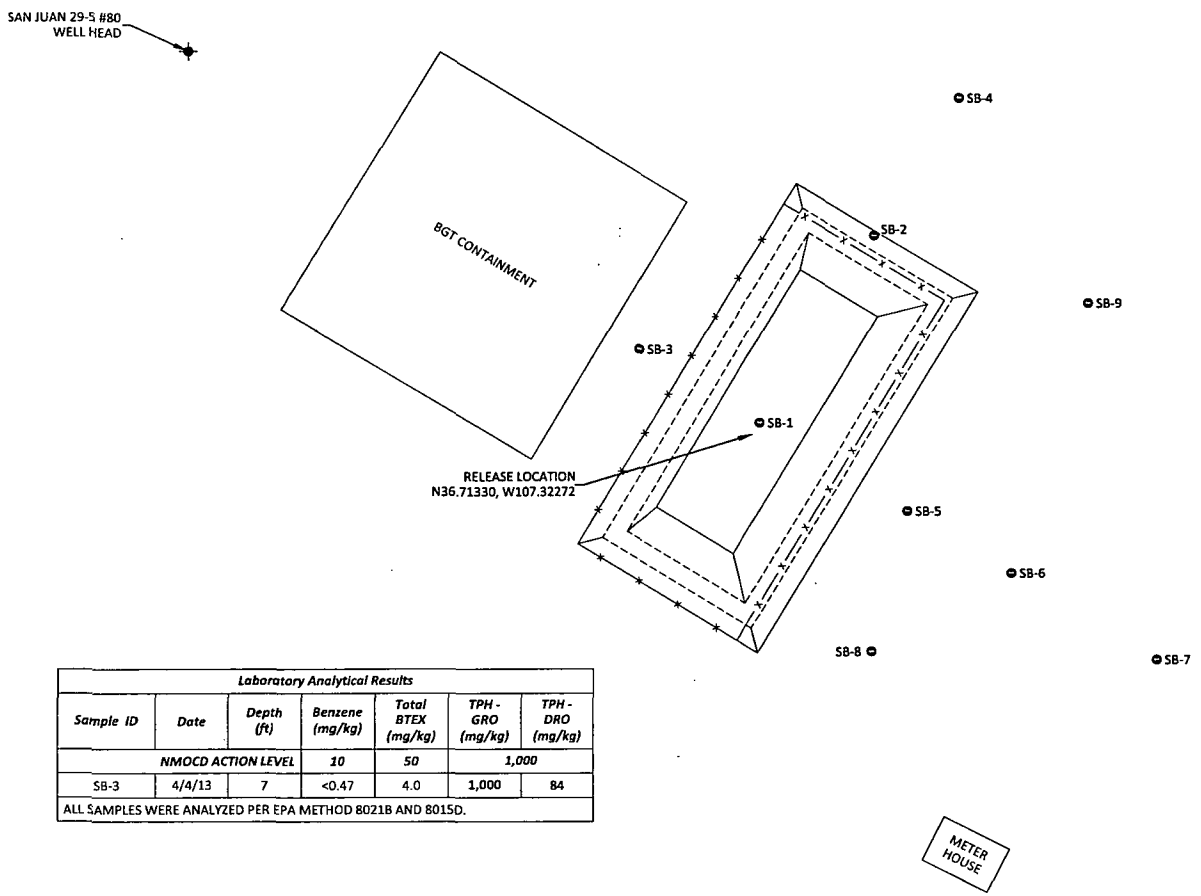
SAMPLE WAS ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0.

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: April 5, 2013	**FIGURE 2**
REVISIONS BY: C. Lameman	DATE REVISED: April 5, 2013	**AERIAL SITE MAP** **BELOW GRADE TANK CLOSURE** **DECEMBER 2012**
CHECKED BY: D. Watson	DATE CHECKED: April 5, 2013	ConocoPhillips SAN JUAN 29-5 #80
APPROVED BY: E. McNally	DATE APPROVED: April 5, 2013	SW¼ NE¼, SECTION 23, T29N, R5W RIO ARRIBA COUNTY, NEW MEXICO N36.71338, W107.32284

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS
APRIL 2013
ConocoPhillips
SAN JUAN 29-5 #80
SW¼ NE¼, SECTION 23, T29N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.71338, W107.32284



Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000	
SB-3	4/4/13	7	<0.47	4.0	1,000	84
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.						

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SB-1	4/4/13	2	10.4	NA
		4	2,837	NA
		6	3,522	NA
		8	3,638	2,200
SB-2	4/4/13	Surface	35.5	NA
		2	7.5	NA
		4	3.8	NA
		6	3,677	NA
		8	2,910	4,960
SB-3	4/4/13	Surface	53.4	37.1
		2	6.2	NA
		4	4.2	NA
		6	9.2	69.2
		7	2,992	1,600
SB-4	4/4/13	Surface	6.2	NA
		2	5.5	NA
		4	5.6	NA
		6	3.6	NA
		7	5.1	37.1
SB-5	4/4/13	Surface	5.8	NA
		2	416	109
SB-6	4/4/13	Surface	9.0	NA
		2	4,245	NA
		4	4,194	NA
		5	3,929	1,790
SB-7	4/4/13	Surface	44.4	NA
		1	4.8	NA
SB-8	4/4/13	Surface	4.1	NA
		2	2.8	NA
		4	6.0	NA
		5	18.7	NA
		6.5	19.6	42.0
SB-9	4/4/13	Surface	4.7	NA
		2	3.7	NA
		4	4.6	NA
		6	2.9	NA
		6.5	51.2	104
NA - NOT ANALYZED				

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	April 5, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	April 5, 2013
CHECKED BY:	DATE CHECKED:
H. Woods	April 5, 2013
APPROVED BY:	DATE APPROVED:
D. Watson	April 5, 2013

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

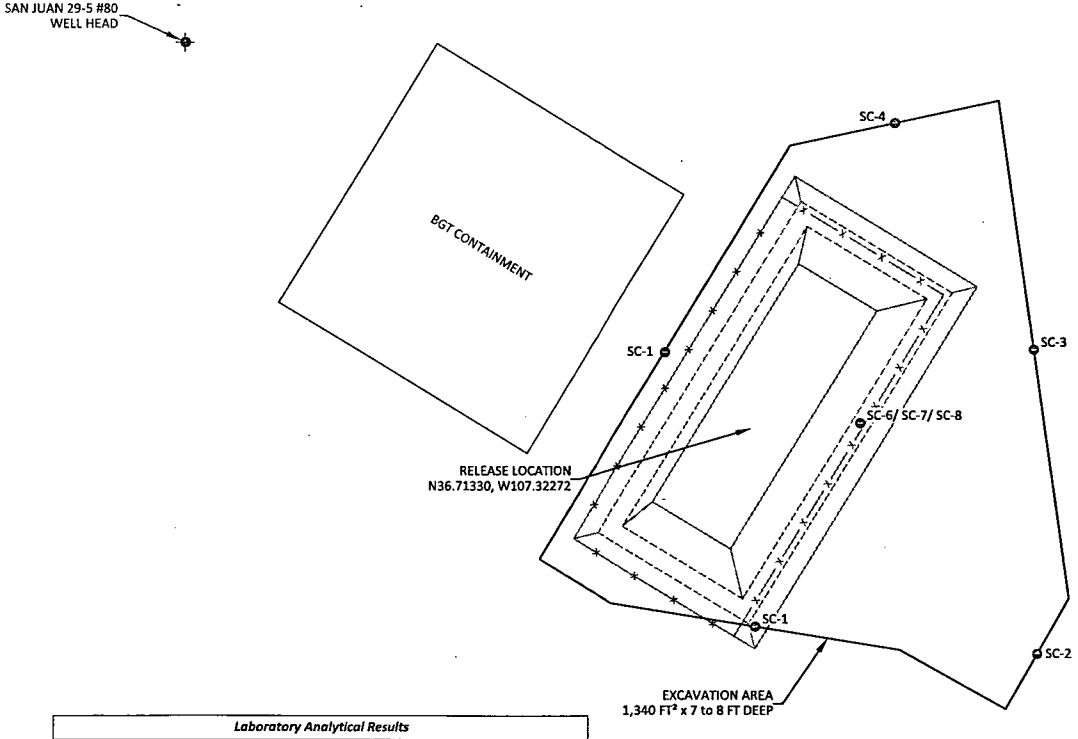
N

SCALE
10 6 0 10
2
(1 INCH = 10 FEET)

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS MAY 2013

ConocoPhillips
SAN JUAN 29-5 #80
SW¼ NE¼, SECTION 23, T29N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.71338, W107.32284



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-1	5/17/13	1 to 8	92.4	51.3
SC-2	5/17/13	1 to 8	283	302
SC-3	5/17/13	1 to 8	19.7	52.5
SC-4	5/17/13	1 to 8	12.7	81.4
SC-5	5/17/13	1 to 8	13.7	47.5
SC-6	5/17/13	7 to 8	6,945	1,880
SC-7	5/21/13	7 to 8	3,564	1,180
SC-8	5/28/13	7 to 8	571	501
ALL SAMPLES WERE 5-POINT COMPOSITE SAMPLES.				

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000	
SC-6	5/17/13	7 to 8	1.4	128	2,200	580
SC-7	5/21/13	7 to 8	<0.50	54	990	570
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.						

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 20, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 29, 2013
CHECKED BY: D. Watson	DATE CHECKED: May 29, 2013
APPROVED BY: E. McNally	DATE APPROVED: May 29, 2013

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

N

SCALE
10 5 0 10
2
(1 INCH = 10 FEET)

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-5 #80 Southeast BGT

Date: 12/20/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	12/20/2012	10:42	North	3.2	NA	16:11	>2,500	20.0	1	DAW
S-2	12/20/2012	10:44	South	0.4	NA	16:14	1,730	20.0	1	DAW
S-3	12/20/2012	10:46	East	0.0	NA	16:16	1,540	20.0	1	DAW
S-4	12/20/2012	10:48	West	0.1	NA	16:20	107	20.0	1	DAW
SC-1	12/20/2012	13:40	Composite	NA	80	*Not Analyzed for TPH.*				

PQL Practical Quantitation Limit
ND Not Detected at the Reporting Limit
NA Not Analyzed
DF Dilution Factor
**Field TPH concentrations recorded may be below PQL.*

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate
Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Deborah Watson

Report Finalized: 12/20/12

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-5 #80 Southeast BGT

Date: 4/4/2013

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 2'	4/4/2013	10:26	10.4	*Not Analyzed for TPH*				
SB-1 @ 4'	4/4/2013	10:31	2,837	*Not Analyzed for TPH*				
SB-1 @ 6'	4/4/2013	10:37	3,522	*Not Analyzed for TPH*				
SB-1 @ 8'	4/4/2013	10:46	3,638	11:16	2,200	100	1	HMW
SB-2 @ Surface	4/4/2013	10:49	35.5	*Not Analyzed for TPH*				
SB-2 @ 2'	4/4/2013	10:55	7.5	*Not Analyzed for TPH*				
SB-2 @ 4'	4/4/2013	11:00	3.8	*Not Analyzed for TPH*				
SB-2 @ 6'	4/4/2013	11:08	3,677	*Not Analyzed for TPH*				
SB-2 @ 8'	4/4/2013	11:12	2,910	11:40	4,960	40.0	1	HMW
SB-3 @ Surface	4/4/2013	11:20	53.4	12:13	37.1	20.0	1	HMW
SB-3 @ 2'	4/4/2013	11:25	6.2	*Not Analyzed for TPH*				
SB-3 @ 4'	4/4/2013	11:31	4.2	*Not Analyzed for TPH*				
SB-3 @ 6'	4/4/2013	11:38	9.2	12:57	69.2	20.0	1	HMW
SB-3 @ 7'	4/4/2013	11:47	2,992	12:16	1,600	40.0	1	HMW
SB-4 @ Surface	4/4/2013	11:50	6.2	*Not Analyzed for TPH*				
SB-4 @ 2'	4/4/2013	11:55	5.5	*Not Analyzed for TPH*				
SB-4 @ 4'	4/4/2013	12:00	5.6	*Not Analyzed for TPH*				
SB-4 @ 6'	4/4/2013	12:20	3.6	*Not Analyzed for TPH*				
SB-4 @ 7'	4/4/2013	12:28	5.1	13:01	37.1	20.0	1	HMW
SB-5 @ Surface	4/4/2013	12:29	5.8	*Not Analyzed for TPH*				
SB-5 @ 2'	4/4/2013	12:34	416	13:04	109	40.0	1	HMW
SB-6 @ Surface	4/4/2013	12:36	9.0	*Not Analyzed for TPH*				

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-6 @ 2'	4/4/2013	12:43	4,245	*Not Analyzed for TPH*				
SB-6 @ 4'	4/4/2013	12:54	4,194	*Not Analyzed for TPH*				
SB-6 @ 5'	4/4/2013	12:58	3,929	13:20	1,790	40.0	1	HMW
SB-7 @ Surface	4/4/2013	13:01	44.4	*Not Analyzed for TPH*				
SB-7 @ 1'	4/4/2013	13:10	4.8	*Not Analyzed for TPH*				
SB-8 @ Surface	4/4/2013	13:16	4.1	*Not Analyzed for TPH*				
SB-8 @ 2'	4/4/2013	13:20	2.8	*Not Analyzed for TPH*				
SB-8 @ 4'	4/4/2013	13:27	6.0	*Not Analyzed for TPH*				
SB-8 @ 6'	4/4/2013	13:34	18.7	*Not Analyzed for TPH*				
SB-8 @ 6.5'	4/4/2013	13:35	19.6	*Not Analyzed for TPH*				
SB-9 @ Surface	4/4/2013	13:39	4.7	14:02	42.0	20.0	1	HMW
SB-9 @ 2'	4/4/2013	13:44	3.7	*Not Analyzed for TPH*				
SB-9 @ 4'	4/4/2013	13:47	4.6	*Not Analyzed for TPH*				
SB-9 @ 6'	4/4/2013	13:51	2.9	*Not Analyzed for TPH*				
SB-9 @ 6.5'	4/4/2013	13:55	51.2	14:19	104	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst: Heather M. Woods

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-5 #80 Southeast BGT

Date: 5/17/2013

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	5/17/2013	10:15	South Wall	92.4	11:28	51.3	20.0	1	HMW
SC-2	5/17/2013	12:12	East Wall	283	12:38	302	20.0	1	HMW
SC-3	5/17/2013	10:21	North Wall	19.7	11:34	52.5	20.0	1	HMW
SC-4	5/17/2013	10:23	Northwest Wall	12.7	11:36	81.4	20.0	1	HMW
SC-5	5/17/2013	10:25	West Wall	13.7	11:39	47.5	20.0	1	HMW
SC-6	5/17/2013	10:27	Base	6,945	11:41	1,880	20.0	1	HMW

PQL Practical Quantitation Limit
ND Not Detected at the Reporting Limit
NA Not Analyzed
DF Dilution Factor
Field TPH concentrations recorded may be below PQL.

Analyst: Heather M. Woods

Report Finalized: 05/17/13

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-5 #80 Southeast BGT

Date: 5/21/2013

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-7	5/21/2013	15:10	Base	3,564	15:25	1,180	20.0	1	HMW

PQL Practical Quantitation Limit
ND Not Detected at the Reporting Limit
NA Not Analyzed
DF Dilution Factor
Field TPH concentrations recorded may be below PQL.

Analyst: Heather M. Woods

Report Finalized: 05/21/13

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-5 #80 Southeast BGT

Date: 5/28/2013

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-8	5/28/2013	10:05	Base	571	10:23	501	20.0	1	DAW

PQL Practical Quantitation Limit
ND Not Detected at the Reporting Limit
NA Not Analyzed
DF Dilution Factor
**Field TPH concentrations recorded may be below PQL.*

Analyst: Deborah Watson

Report Finalized: 05/28/13

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 07, 2013

Debbie Watson

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

RE: CoP San Juan 29-5 #80 Southeast BGT OrderNo.: 1212992

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/21/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 31, 2012.

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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1212992**
Date Reported: **1/7/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-1
Project: CoP San Juan 29-5 #80 Southeast BGT
Collection Date: 12/20/2012 10:52:00 AM
Lab ID: 1212992-001
Matrix: MEOH (SOIL)
Received Date: 12/21/2012 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **MMD**
Diesel Range Organics (DRO)	1600	100		mg/Kg	10	1/3/2013 11:15:29 AM
Surr: DNOP	0	72.4-120	S	%REC	10	1/3/2013 11:15:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/27/2012 1:27:22 AM
Surr: BFB	93.0	84-116		%REC	1	12/27/2012 1:27:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/27/2012 1:27:22 AM
Toluene	ND	0.050		mg/Kg	1	12/27/2012 1:27:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/27/2012 1:27:22 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/27/2012 1:27:22 AM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	12/27/2012 1:27:22 AM
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	ND	7.5		mg/Kg	5	12/28/2012 4:38:18 PM

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212992**

07-Jan-13

Client: Animas Environmental Services

Project: CoP San Juan 29-5 #80 Southeast BGT

Sample ID	**MB-5470**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**5470**		RunNo:	**7775**				
Prep Date:	**12/28/2012**	Analysis Date:	**12/28/2012**		SeqNo:	**226027**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-5470**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**5470**		RunNo:	**7775**				
Prep Date:	**12/28/2012**	Analysis Date:	**12/28/2012**		SeqNo:	**226028**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1212992**

07-Jan-13

Client: Animas Environmental Services

Project: CoP San Juan 29-5 #80 Southeast BGT

Sample ID **MB-5490**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **5490**	RunNo: **7826**
Prep Date: **1/2/2013**	Analysis Date: **1/3/2013**	SeqNo: **227293** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.2		10.00		82.4	72.4	120			

Sample ID **LCS-5490**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **5490**	RunNo: **7826**
Prep Date: **1/2/2013**	Analysis Date: **1/3/2013**	SeqNo: **227370** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.2	47.4	122			
Surr: DNOP	3.4		5.000		68.9	72.4	120			S

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1212992

Received by/date: 12/21/12

Logged By: Ashley Gallegos 12/21/2012 9:55:00 AM

Completed By: Ashley Gallegos 12/21/2012 12:24:23 PM

Reviewed By: 12/21/12

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	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ~~☒ Rush Same Day~~ OJ

Project Name:
Northwest
COP San Juan 29-5 #80 BGT

Project #:

Project Manager:
D. Watson

Sampler: H. Woods / D. Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1212992	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4, SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
12/20/12	1052	Soil	SC-1	MeOH Kit 4 oz	MeOH	-007	X							X							

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/20/12	1530	Heather M. Woods	Christie Walters	12/20/12	1531
12/20/12	1647	Christie Walters		12/21/12	0955

Remarks: Bill to ConocoPhillips
WO# 9353964
Supervisor: Bobby Spearman Ordered by: Ashley Maxwell
Area: 24
User ID: LINDAJ

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

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

April 12, 2013

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

RE: CoP San Juan 29-5 #80 OrderNo.: 1304241

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/5/2013 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1304241**
Date Reported: **4/12/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: CoP San Juan 29-5 #80
Lab ID: 1304241-001 **Matrix:** SOIL

Client Sample ID: SB-3 @ 7'
Collection Date: 4/4/2013 11:47:00 AM
Received Date: 4/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **GSA**
Diesel Range Organics (DRO)	84	10		mg/Kg	10	4/10/2013 2:16:35 PM
Surr: DNOP	0	72.4-120	S	%REC	10	4/10/2013 2:16:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1000	47		mg/Kg	10	4/8/2013 4:08:09 PM
Surr: BFB	658	80-120	S	%REC	10	4/8/2013 4:08:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.47		mg/Kg	10	4/8/2013 4:08:09 PM
Toluene	ND	0.47		mg/Kg	10	4/8/2013 4:08:09 PM
Ethylbenzene	ND	0.47		mg/Kg	10	4/8/2013 4:08:09 PM
Xylenes, Total	4.0	0.94		mg/Kg	10	4/8/2013 4:08:09 PM
Surr: 4-Bromofluorobenzene	140	80-120	S	%REC	10	4/8/2013 4:08:09 PM

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304241**

12-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 29-5 #80

Sample ID **1304065-001AMS**	SampType: **MS**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **BatchQC**	Batch ID: **6861**			RunNo: **9731**					
Prep Date: **4/8/2013**	Analysis Date: **4/9/2013**			SeqNo: **277309**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	12.6	148			
Surr: DNOP	5.5		5.000		109	72.4	120			

Sample ID **1304065-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **BatchQC**	Batch ID: **6861**			RunNo: **9731**					
Prep Date: **4/8/2013**	Analysis Date: **4/9/2013**			SeqNo: **277311**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	12.6	148	0.172	22.5	
Surr: DNOP	5.5		5.000		110	72.4	120	0	0	

Sample ID **MB-6861**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **6861**			RunNo: **9729**					
Prep Date: **4/8/2013**	Analysis Date: **4/9/2013**			SeqNo: **277319**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		102	72.4	120			

Sample ID **LCS-6861**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **6861**			RunNo: **9729**					
Prep Date: **4/8/2013**	Analysis Date: **4/9/2013**			SeqNo: **277320**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	47.4	122			
Surr: DNOP	5.3		5.000		106	72.4	120			

Sample ID **MB-6861**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **6861**			RunNo: **9765**					
Prep Date: **4/8/2013**	Analysis Date: **4/10/2013**			SeqNo: **278176**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		101	72.4	120			

Sample ID **LCS-6861**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **6861**			RunNo: **9765**					
Prep Date: **4/8/2013**	Analysis Date: **4/10/2013**			SeqNo: **278177**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	47.4	122			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304241**

12-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 29-5 #80

Sample ID	**LCS-6861**	SampType: **LCS**		TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID: **6861**		RunNo: **9765**					
Prep Date:	**4/8/2013**	Analysis Date: **4/10/2013**		SeqNo: **278177**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		107	72.4	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304241**

12-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 29-5 #80

Sample ID **MB-6843**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277000** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.2	80	120			

Sample ID **LCS-6843**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277001** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	62.6	136			
Surr: BFB	1000		1000		102	80	120			

Sample ID **1304201-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277003** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.50	0	97.6	70	130			
Surr: BFB	960		939.8		102	80	120			

Sample ID **1304201-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277004** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.50	0	107	70	130	8.89	22.1	
Surr: BFB	960		939.8		102	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304241**

12-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 29-5 #80

Sample ID **MB-6843**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277028** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID **LCS-6843**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277029** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID **1304203-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277035** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.047	0.9328	0.004760	97.2	67.2	113			
Toluene	0.95	0.047	0.9328	0.003857	101	62.1	116			
Ethylbenzene	0.94	0.047	0.9328	0	101	67.9	127			
Xylenes, Total	2.8	0.093	2.799	0	101	60.6	134			
Surr: 4-Bromofluorobenzene	1.0		0.9328		112	80	120			

Sample ID **1304203-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **6843**	RunNo: **9720**
Prep Date: **4/5/2013**	Analysis Date: **4/8/2013**	SeqNo: **277042** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.047	0.9346	0.004760	94.1	67.2	113	3.06	14.3	
Toluene	0.94	0.047	0.9346	0.003857	100	62.1	116	0.711	15.9	
Ethylbenzene	0.94	0.047	0.9346	0	101	67.9	127	0.144	14.4	
Xylenes, Total	2.8	0.093	2.804	0	101	60.6	134	0.254	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9346		112	80	120	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1304241 RcptNo: 1

Received by/date: AG 04/05/13

Logged By: **Michelle Garcia** 4/5/2013 10:00:00 AM

Completed By: **Michelle Garcia** 4/5/2013 10:17:31 AM

Reviewed By: 04/05/2013

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. 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)

16. 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: _____

17. Additional remarks:

18. **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
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
CoP San Juan 29-5 #80

Project #:

Project Manager:
D. Watson

Sampler: H. Woods / C. Lameman

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

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. 1304241	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
4/4/13	1147	Soil	SB-3@7'	1-4oz	Non	-001	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/4/13	1634	Heather M. Woods	Christine Walker	4/4/13	1634
4/4/13	1700	Christine Walker		04/05/13	1000

Remarks: Bill to ConocoPhillips
Supervisor: Bobby Spearman
Area: 24
User ID: LINDAJ
Ordered by: Ashley Maxwell

WO: 9353964

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

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

May 21, 2013

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

RE: COP San Juan 29-5 #80 OrderNo.: 1305761

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/18/2013 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1305761**
Date Reported: **5/21/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COP San Juan 29-5 #80
Lab ID: 1305761-001 **Matrix:** SOIL

Client Sample ID: SC-6
Collection Date: 5/17/2013 10:27:00 AM
Received Date: 5/18/2013 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	580	10		mg/Kg	1	5/20/2013 1:25:02 PM	7513
Surr: DNOP	106	63-147		%REC	1	5/20/2013 1:25:02 PM	7513
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	2200	200		mg/Kg	40	5/20/2013 12:45:32 PM	R10738
Surr: BFB	218	80-120	S	%REC	40	5/20/2013 12:45:32 PM	R10738
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.4	1.0		mg/Kg	40	5/20/2013 12:45:32 PM	R10738
Toluene	29	2.0		mg/Kg	40	5/20/2013 12:45:32 PM	R10738
Ethylbenzene	10	2.0		mg/Kg	40	5/20/2013 12:45:32 PM	R10738
Xylenes, Total	88	4.0		mg/Kg	40	5/20/2013 12:45:32 PM	R10738
Surr: 4-Bromofluorobenzene	118	80-120		%REC	40	5/20/2013 12:45:32 PM	R10738

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1305761**

21-May-13

Client: Animas Environmental

Project: COP San Juan 29-5 #80

Sample ID **LCS-7513**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **7513**	RunNo: **10726**
Prep Date: **5/20/2013**	Analysis Date: **5/20/2013**	SeqNo: **303445** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	77.1	128			
Surr: DNOP	6.4		5.000		129	63	147			

Sample ID **MB-7513**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **7513**	RunNo: **10726**
Prep Date: **5/20/2013**	Analysis Date: **5/20/2013**	SeqNo: **303446** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		105	63	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1305761**

21-May-13

Client: Animas Environmental

Project: COP San Juan 29-5 #80

Sample ID **MB-7495**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R10738**	RunNo: **10738**
Prep Date: **5/17/2013**	Analysis Date: **5/20/2013**	SeqNo: **303867** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.9	80	120			

Sample ID **LCS-7495**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R10738**	RunNo: **10738**
Prep Date: **5/17/2013**	Analysis Date: **5/20/2013**	SeqNo: **303868** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	125	62.6	136			
Surr: BFB	1100		1000		113	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305761

21-May-13

Client: Animas Environmental

Project: COP San Juan 29-5 #80

Sample ID MB-7495	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: R10738	RunNo: 10738
Prep Date: 5/17/2013	Analysis Date: 5/20/2013	SeqNo: 303896 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	80	120			

Sample ID LCS-7495	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: R10738	RunNo: 10738
Prep Date: 5/17/2013	Analysis Date: 5/20/2013	SeqNo: 303897 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1305761 RcptNo: 1

Received by/date: AT 05/18/13

Logged By: Anne Thorne 5/18/2013 11:00:00 AM Anne Thorne

Completed By: Anne Thorne 5/20/2013 Anne Thorne

Reviewed By: AT 05/20/13

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. 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)

16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Yes			

Chain-of-Custody Record

Client: Animal Environmental Services

Mailing Address: 624 E. Comanche

Farmington, NM 87401

Phone #:

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush Same Day

Project Name: CoP San Juan 29-5 #80

Project #:

Project Manager: D. Watson

Sampler: H. Woods / S. Lynn

On Ice: ☒ Yes ☐ No

Sample Temperature: 2 N S

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1305116	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Analysis Request
5/17/13	1027	Soil	SC-6	MeOH Kit 1-4oz	MeOH	-001	X		X									

Date: 5/17/13 Time: 1547 Relinquished by: Heather M. Woods Received by: Date 5/17/13 Time 1547

Date: 5/17/13 Time: 1620 Relinquished by: Received by: Date 05/18/13 Time 0700

Remarks: Bill to ConocoPhillips

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

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

May 28, 2013

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

RE: COP San Juan 29-5 #80 OrderNo.: 1305872

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/22/2013 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1305872**
Date Reported: **5/28/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COP San Juan 29-5 #80
Lab ID: 1305872-001

Client Sample ID: SC-7
Collection Date: 5/21/2013 3:10:00 PM
Matrix: MEOH (SOIL) **Received Date:** 5/22/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	570	10		mg/Kg	1	5/22/2013 11:54:27 AM	7560
Surr: DNOP	120	63-147		%REC	1	5/22/2013 11:54:27 AM	7560
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **DAM**	
Gasoline Range Organics (GRO)	990	50		mg/Kg	10	5/22/2013 12:36:35 PM	7536
Surr: BFB	355	80-120	S	%REC	10	5/22/2013 12:36:35 PM	7536
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**	
Benzene	ND	0.50		mg/Kg	10	5/22/2013 12:36:35 PM	7536
Toluene	7.9	0.50		mg/Kg	10	5/22/2013 12:36:35 PM	7536
Ethylbenzene	4.1	0.50		mg/Kg	10	5/22/2013 12:36:35 PM	7536
Xylenes, Total	42	1.0		mg/Kg	10	5/22/2013 12:36:35 PM	7536
Surr: 4-Bromofluorobenzene	127	80-120	S	%REC	10	5/22/2013 12:36:35 PM	7536

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1305872**

28-May-13

Client: Animas Environmental
Project: COP San Juan 29-5 #80

Sample ID **MB-7560**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **7560**	RunNo: **10785**
Prep Date: **5/22/2013**	Analysis Date: **5/22/2013**	SeqNo: **305354** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.8		10.00		77.9	63	147			

Sample ID **LCS-7560**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **7560**	RunNo: **10785**
Prep Date: **5/22/2013**	Analysis Date: **5/22/2013**	SeqNo: **305355** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	77.1	128			
Surr: DNOP	3.9		5.000		78.8	63	147			

Sample ID **1305803-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **7534**	RunNo: **10785**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305663** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.025		101	63	147			

Sample ID **1305803-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **7534**	RunNo: **10785**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305664** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8		4.980		116	63	147	0	0	

Sample ID **MB-7579**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **7579**	RunNo: **10810**
Prep Date: **5/23/2013**	Analysis Date: **5/23/2013**	SeqNo: **306110** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	63	147			

Sample ID **LCS-7579**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **7579**	RunNo: **10810**
Prep Date: **5/23/2013**	Analysis Date: **5/23/2013**	SeqNo: **306204** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		119	63	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1305872**

28-May-13

Client: Animas Environmental
Project: COP San Juan 29-5 #80

Sample ID **MB-7536**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **7536**	RunNo: **10803**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305802** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.8	80	120			

Sample ID **LCS-7536**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **7536**	RunNo: **10803**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305803** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	62.6	136			
Surr: BFB	1000		1000		104	80	120			

Sample ID **1305803-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **7536**	RunNo: **10803**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305804** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.7	23.36	1.812	126	70	130			
Surr: BFB	970		934.6		104	80	120			

Sample ID **1305803-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **7536**	RunNo: **10803**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305805** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.7	23.39	1.812	130	70	130	2.78	22.1	
Surr: BFB	1000		935.5		107	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1305872**

28-May-13

Client: Animas Environmental

Project: COP San Juan 29-5 #80

Sample ID **MB-7536**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **7536**	RunNo: **10803**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305817** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID **LCS-7536**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **7536**	RunNo: **10803**
Prep Date: **5/21/2013**	Analysis Date: **5/22/2013**	SeqNo: **305818** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1305872** RcptNo: 1

Received by/date: 05/22/13

Logged By: **Ashley Gallegos** 5/22/2013 10:00:00 AM

Completed By: **Ashley Gallegos** 5/22/2013 10:14:11 AM

Reviewed By: IO 05/22/2013

Chain of Custody

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

Log In

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

Special Handling (if applicable)

16. 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:

17. Additional remarks:

18. 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
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush Same Day

Project Name:
Col San Juan 29-5 #80

Project #:

Project Manager:
D. Watson

Sampler: H. Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1305872	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				
5/21/13	1510	Soil	SC-7	MeOH Kit 1-4oz	MeOH	-001	X		X												

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/21/13	1725	Heather M. Woods	Chris Walt	5/21/13	1728
5/21/13	1748	Chris Walt		05/22/13	1000

Remarks: Bill to ConocoPhillips

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.