

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Sheets 4	Facility Type: Gas Well

Surface Owner Federal	Mineral Owner Federal (SF-080376-A)	API No. 30-045-24297
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	28	31N	9W	1100	South	1530	East	San Juan

Latitude **36.86487** Longitude **107.78156**

NATURE OF RELEASE

Type of Release Produced Fluids	Volume of Release Unknown	Volume Recovered 176 cu.yds
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery August 6, 2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Closure Activities

**RCVD MAY 7 '13
OIL CONS. DIV.
DIST. 3**

Describe Area Affected and Cleanup Action Taken.*
The below grade tank sample results were above regulatory standards by USEPA method 418.1 for TPH confirming a release. Excavation and confirmation sampling occurred. The excavation was 22' x 18' x 12' where sandstone was encountered. 176 cubic yards of soil was transported to a third party landfarm. Analytical results for BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release. However, TPH concentrations as GRO/DRO exceeded the NMOCD action levels of 100 mg/kg with 3,150 mg/kg. COP received approval from BLM & OCD to apply potassium permanganate to the base of the excavation on 3/4/13. N further action will be performed on this location. The final report is attached for review.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 1/8/2014	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval: C-144 Closure Permit required for BBT Closure	Attached <input type="checkbox"/>
Date: 5/6/2013 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

njk1400833265



Animas Environmental Services, LLC

www.animasenvironmental.com

April 29, 2013

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-4
5525 Hwy 64
Farmington, New Mexico 87401

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

Durango, Colorado
970-403-3084

**RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report
Sheets #4
San Juan County, New Mexico**

Dear Ms. Tafoya:

On June 26 and August 6, 2012, and February 23, 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) Sheets #4, located in San Juan County, New Mexico. The historical release was discovered during BGT closure sampling at the location. An initial release assessment was completed on August 6, 2012. The final excavation was completed by contractors while AES was on location on February 23, 2013.

1.0 Site Information

1.1 Location

Site Name – Sheets #4

Legal Description - SW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 28, T31N, R9W, San Juan County, New Mexico

Well Latitude/Longitude – N36.86493 and W107.78220, respectively

BGT/Release Latitude/Longitude - N36.86481 and W107.78225, respectively

Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1 - Topographic Site Location Map

Figure 2 - Aerial Site Map, June 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and cathodic reports for the Sheets #4 location dated August 1988 and May 1991 reported the depth to groundwater as 90 feet below ground surface (bgs). Additionally, a Replacement C-144 form for the site dated September 2004 had a

ranking of 10 for depth to groundwater. The New Mexico Office of the State Engineer (NMOSE) database was reviewed, and no registered water wells were 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 between 50 and 99 feet bgs. The wash in Little Pump Canyon is approximately 650 feet northwest of the location. Based on this information, the location was assessed a ranking score of 20 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Assessments

AES was initially contacted by Jess Henson, CoP representative, on June 25, 2012, for BGT closure sampling at the location. On June 26, 2012, Deborah Watson and Zachary Trujillo of AES traveled to the location and collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample. Sample locations are included on Figure 2.

On August 6, 2012, AES personnel returned to the location to complete the release assessment field work. The assessment included collection and field screening of 20 soil samples from nine 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 February 27, 2013, AES personnel returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The final excavation measured 34 feet by 26 feet by 12 feet in depth. The depth of the excavation was limited based on a confining sandstone layer encountered at 12 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

On June 26, 2012, during BGT closure sampling, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet

below the former BGT for field screening of volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chlorides. A five point composite sample (SC-1) was collected for confirmation laboratory analysis.

A total of 20 soil samples (SB-1 through SB-9) and 5 composite samples (SC-1 through SC-5) were collected during the release and excavation assessments. All soil samples were field screened for VOCs, and selected samples were analyzed for TPH. One composite sample (SC-1) collected during the excavation was 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 samples were 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 composite 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 8260B/8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

The soil sample (SC-1) collected on June 26, 2012, was also analyzed for:

- Chlorides per USEPA Method 300.0.

2.3 Soil Field and Laboratory Analytical Results

On June 26, 2012, BGT closure field screening readings for VOCs via OVM ranged from 2.4 ppm in S-3 up to 76.2 ppm in S-1. Field TPH concentrations ranged from 77.4 mg/kg in S-3 to greater than 2,500 mg/kg in S-4. Field chloride concentrations were reported at 40 mg/kg in each sample (S-1 through S-5).

On August 6, 2012, initial assessment field screening readings for VOCs via OVM ranged from 2.7 ppm in SB-3 and SB-6 up to 3,797 ppm in SB-4. Field TPH concentrations ranged from 90.5 mg/kg in SB-9 to greater than 6,530 mg/kg in SB-1.

On February 27, 2013, final excavation field screening results for VOCs via OVM ranged from 2.3 ppm in SC-4 up to 1,926 ppm in SC-1. Field TPH concentrations ranged from 24.8 mg/kg in SC-5 to greater than 5,000 mg/kg in SC-1. 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
 Sheets #4 BGT Closure, Release Assessment and Final Excavation Report
 June and August 2012 and February 2013

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Chloride (mg/kg)
NMOCDC Action Level*			100	100	250
S-1	06/26/12	4	76.2	1,580	40
S-2	06/26/12	4	18.8	1,810	40
S-3	06/26/12	4	2.4	77.4	40
S-4	06/26/12	4	51.7	>2,500	40
S-5	06/26/12	4	3.8	211	40
SB-1	08/06/12	6	7.6	NA	NA
		8	149	NA	NA
		9.5	2,365	6,530	NA
SB-2	08/06/12	4	4.6	NA	NA
		6	3.5	143	NA
SB-3	08/06/12	6	5.3	NA	NA

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>	<i>Chloride (mg/kg)</i>
NMOCDC Action Level*			100	100	250
		8	2.7	117	NA
SB-4	08/06/12	6	20.9	NA	NA
		8	2,344	NA	NA
		10	3,797	NA	NA
		12	2,204	NA	NA
SB-5	08/06/12	4	10.1	NA	NA
		6	51.2	2,250	NA
SB-6	08/06/12	6	2.7	NA	NA
		8	9.9	NA	NA
		10.5	12.5	117	NA
SB-7	08/06/12	6	9.1	NA	NA
		7	8.8	95.1	NA
SB-8	08/06/12	6	7.7	105	NA
SB-9	08/06/12	6	9.9	90.5	NA
SC-1	02/27/13	12	1,926	>5,000	NA
SC-2	02/27/13	1 to 12	9.6	94.4	NA
SC-3	02/27/13	1 to 12	2.5	44.3	NA
SC-4	02/27/13	1 to 12	2.3	88.3	NA
SC-5	02/27/13	1 to 12	4.5	24.8	NA

NA – not analyzed

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

Laboratory analytical results for SC-1 collected on June 26, 2012, from below 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. The TPH as GRO/DRO concentration was reported at 2,780 mg/kg. The chloride concentration was below the laboratory detection limit of 30 mg/kg.

Laboratory analytical results for SC-1 collected on February 27, 2013, from the base of the final excavation, had a benzene concentration reported below the laboratory detection limit of 0.25 mg/kg. The total BTEX concentration was 25 mg/kg. The TPH concentration as GRO/DRO was 3,150 mg/kg. Laboratory analytical results are

summarized in Table 2 and included on Figures 2 and 4. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides
 Sheets #4 BGT Closure and Final Excavation
 June 2012 and February 2013

<i>Sample ID</i>	<i>Date</i>	<i>Depth (ft)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH-GRO (mg/kg)</i>	<i>TPH-DRO (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
NMOCD Action Level			0.2/10	50	100		250
SC-1	06/26/12	4	<0.050	<0.25	80	2,700	<30
SC-1	02/27/13	12	<0.25	25	850	2,300	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. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported above the NMOCD action level of 100 mg/kg with 2,780 mg/kg. 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 reported below the NMOCD action level of 250 mg/kg. Based on field and laboratory analytical results, a release was confirmed at the location.

On August 6, 2012, 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 20. Field screening results for VOCs via OVM were above the NMOCD action level of 100 ppm in SB-1 and SB-4, with the highest concentration of 3,797 ppm reported in SB-4. Field TPH concentrations above the NMOCD action level of 100 mg/kg were reported in each boring except SB-7 and SB-9. Note that SB-4 was not field screened for TPH, because it was inferred to be above action levels.

On February 27, 2013, final assessment of the 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 four walls of the excavation. However, the base of the excavation (SC-1) exceeded NMOCD action levels for VOCs with 1,926 ppm and TPH with greater than 5,000 mg/kg. Laboratory analytical results for SC-1

(base) showed benzene and total BTEX concentrations below applicable NMOCD action levels. However, TPH concentrations as GRO/DRO exceeded the NMOCD action level of 100 mg/kg with 3,150 mg/kg. Further excavation of the base was not possible due to a competent layer of sandstone encountered at 12 feet bgs.

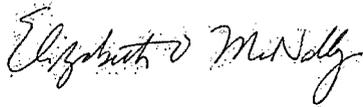
CoP consulted with Mark Kelly of BLM and Brandon Powell of NMOCD, and on March 4, 2013, was granted approval to backfill the excavation following application of potassium permanganate to the base of the excavation, which was applied on March 4, 2013, by Envirotech Inc. No further work is recommended for the Sheets #4.

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

Sincerely,



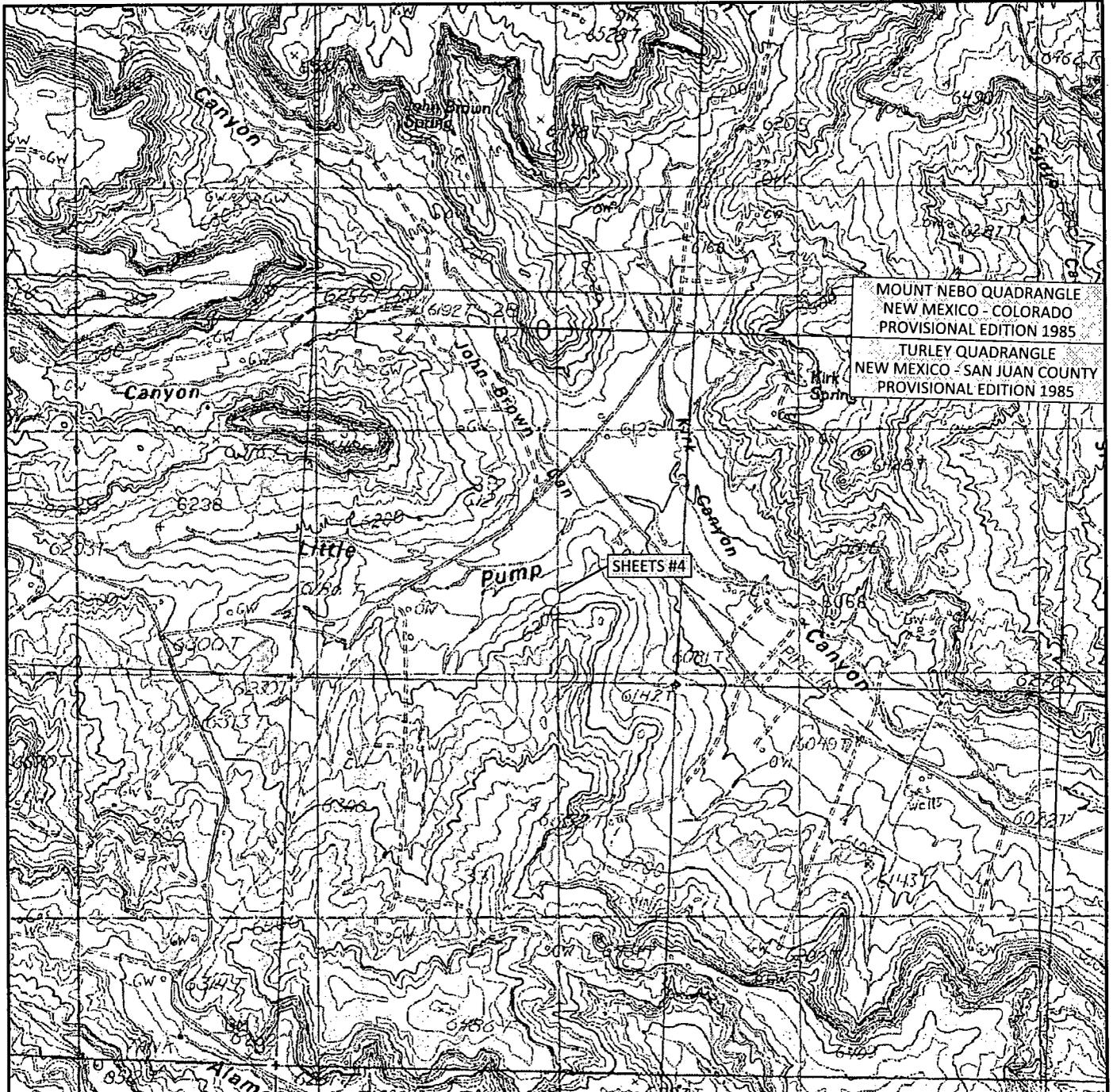
Landrea Cupps
Environmental Scientist



Elizabeth McNally, P.E.

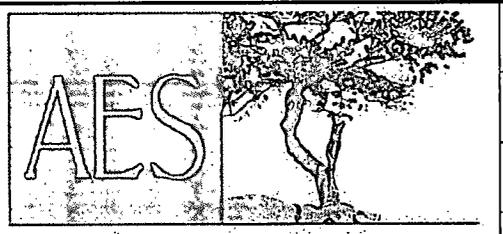
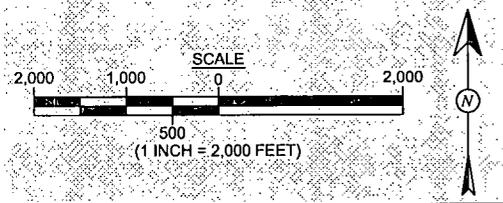
Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, June 2012
- Figure 3. Initial Assessment Sample Locations and Results, August 2012
- Figure 4. Final Excavation Sample Locations and Results, February 2013
- AES Field Screening Reports (062612, 080612, and 022713)
- Hall Analytical Reports (1206B26 and 1302915)



MOUNT NEBO QUADRANGLE
 NEW MEXICO - COLORADO
 PROVISIONAL EDITION 1985
 TURLEY QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 PROVISIONAL EDITION 1985

SHEETS #4



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: June 26, 2012
REVISIONS BY: C. Lameman	DATE REVISED: June 26, 2012
CHECKED BY: D. Watson	DATE CHECKED: June 26, 2012
APPROVED BY: E. McNally	DATE APPROVED: June 26, 2012

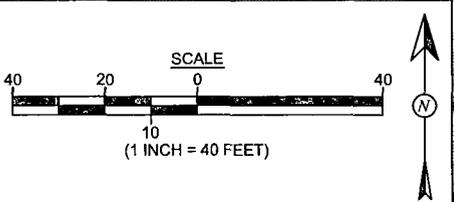
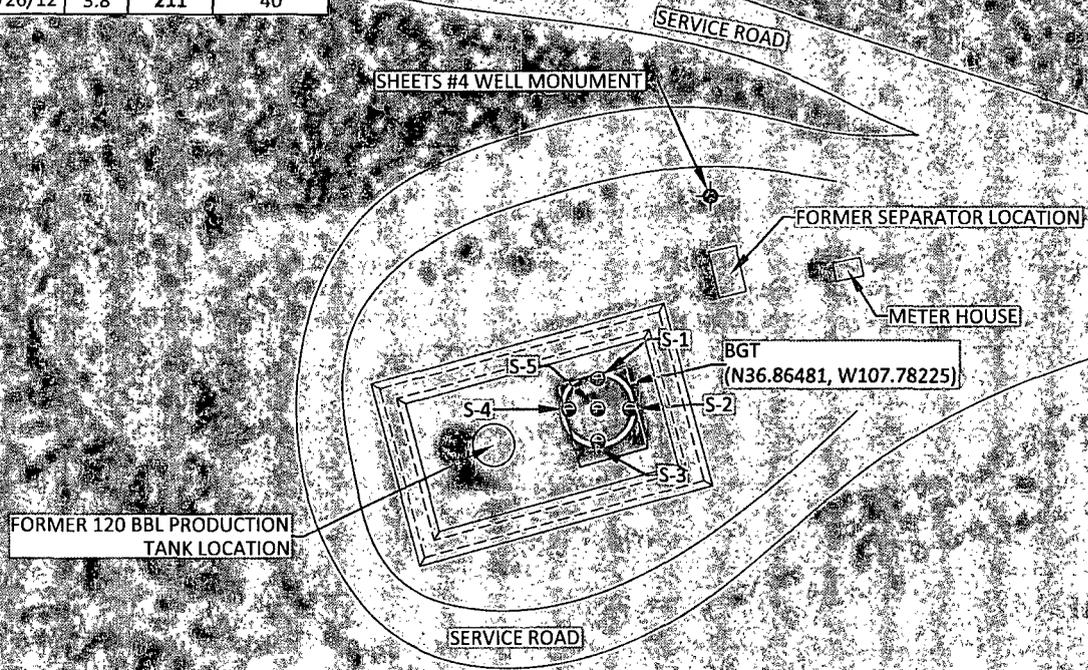
FIGURE 1
TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 SHEETS #4
 SAN JUAN COUNTY, NEW MEXICO
 SW¼, SE¼, SECTION 28, T31N, R9W
 N36.86493, W107.78220

LEGEND	
	SECONDARY CONTAINMENT

Field Screening Results				
Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		NE	100	250
S-1	6/26/12	76.2	1,580	40
S-2	6/26/12	18.8	1,810	40
S-3	6/26/12	2.4	77.4	40
S-4	6/26/12	51.7	>2,500	40
S-5	6/26/12	3.8	211	40

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	250
SC-1	6/26/12	<0.050	<0.25	80	2,700	<30

NOTE: ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0. SC-1 IS A 5 POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5.



AERIAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE.



DRAWN BY: C. Lameman	DATE DRAWN: June 26, 2012
REVISIONS BY: C. Lameman	DATE REVISED: June 26, 2012
CHECKED BY: D. Watson	DATE CHECKED: June 26, 2012
APPROVED BY: E. McNally	DATE APPROVED: June 26, 2012

FIGURE 2

**AERIAL SITE MAP
JUNE 2012**

ConocoPhillips
SHEETS #4
SAN JUAN COUNTY, NEW MEXICO
SW¼, SE¼, SECTION 28, T31N, R9W
N36.86493, W107.78220

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS AUGUST 2012
 ConocoPhillips
 SHEETS #4
 SAN JUAN COUNTY, NEW MEXICO
 SW¼ SE¼, SECTION 28, T31N, R9W
 N36.86493, W107.78220



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
August 10, 2012

REVISIONS BY:
C. Lameman

DATE REVISED:
February 27, 2013

CHECKED BY:
D. Watson

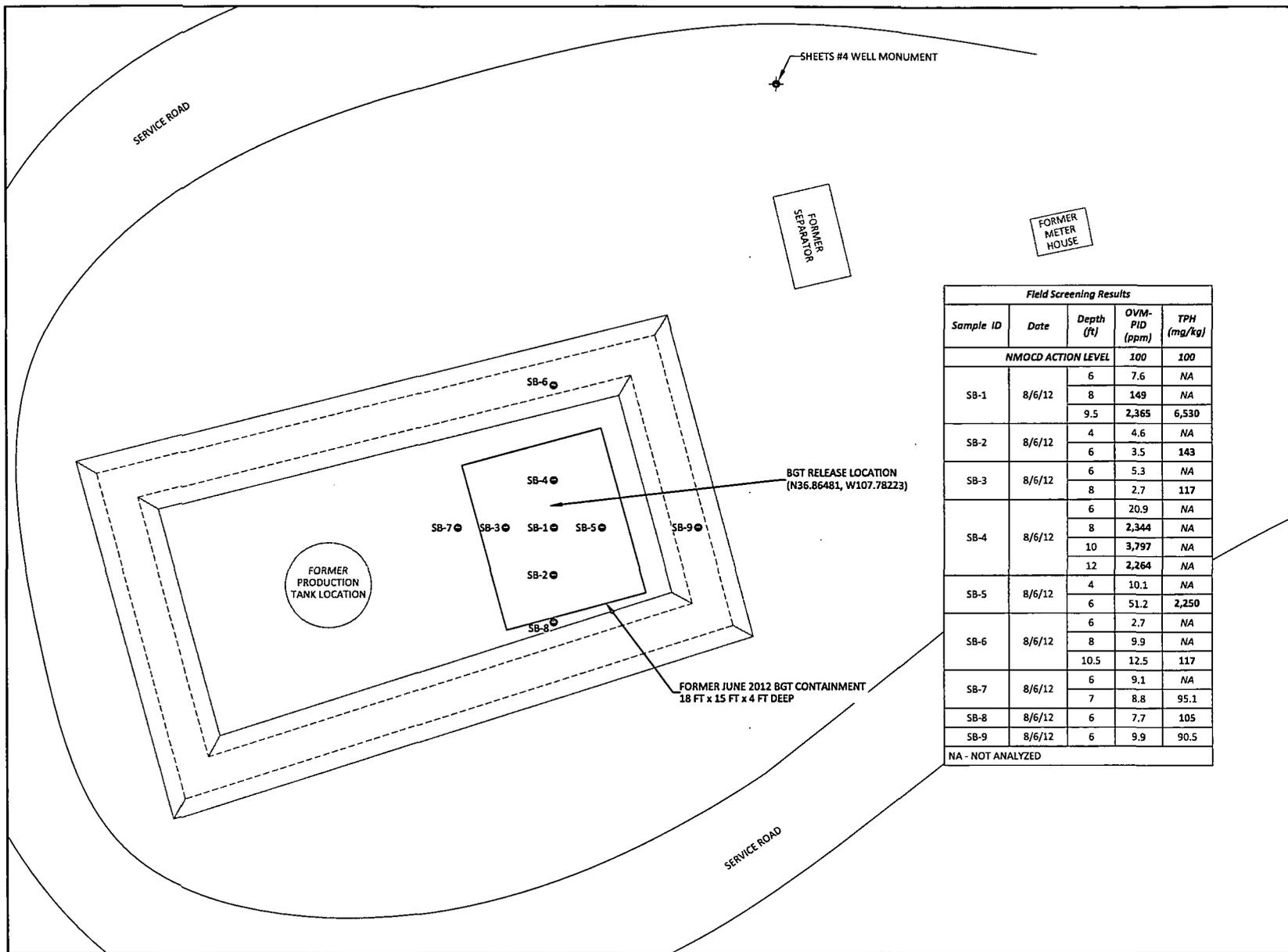
DATE CHECKED:
February 27, 2013

APPROVED BY:
E. McNally

DATE APPROVED:
February 27, 2013

LEGEND

● SAMPLE LOCATIONS



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOC ACTION LEVEL			100	100
SB-1	8/6/12	6	7.6	NA
		8	149	NA
		9.5	2,365	6,530
SB-2	8/6/12	4	4.6	NA
		6	3.5	143
SB-3	8/6/12	6	5.3	NA
		8	2.7	117
SB-4	8/6/12	6	20.9	NA
		8	2,344	NA
		10	3,797	NA
		12	2,264	NA
SB-5	8/6/12	4	10.1	NA
		6	51.2	2,250
SB-6	8/6/12	6	2.7	NA
		8	9.9	NA
		10.5	12.5	117
SB-7	8/6/12	6	9.1	NA
		7	8.8	95.1
SB-8	8/6/12	6	7.7	105
SB-9	8/6/12	6	9.9	90.5
NA - NOT ANALYZED				

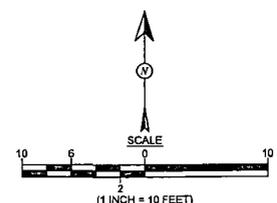


FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
FEBRUARY 2013
 ConocoPhillips
 SHEETS #4
 SAN JUAN COUNTY, NEW MEXICO
 SW¼ SE¼, SECTION 28, T31N, R9W
 N36.86493, W107.78220

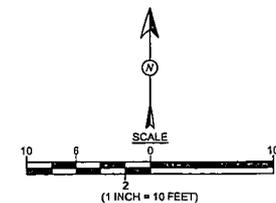


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: August 10, 2012
REVISIONS BY: C. Lameman	DATE REVISED: February 27, 2013
CHECKED BY: D. Watson	DATE CHECKED: February 27, 2013
APPROVED BY: E. McNally	DATE APPROVED: February 27, 2013

LEGEND

- SAMPLE LOCATIONS

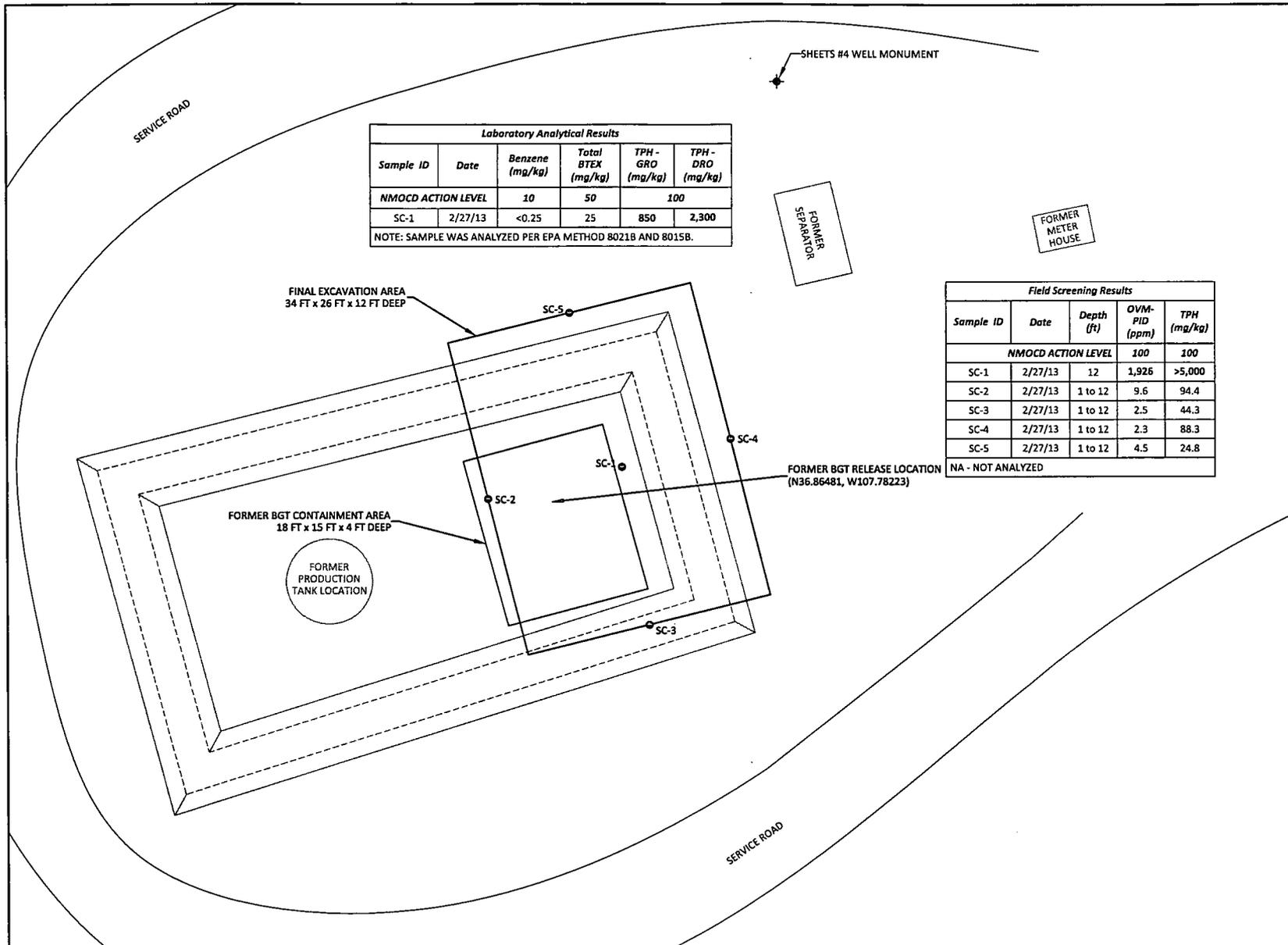


Laboratory Analytical Results					
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOC D ACTION LEVEL		10	50	100	
SC-1	2/27/13	<0.25	25	850	2,300

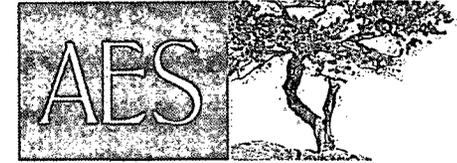
NOTE: SAMPLE WAS ANALYZED PER EPA METHOD 8021B AND 8015B.

Field Screening Results				
Sample ID	Date	Depth (ft)	OV/M-PID (ppm)	TPH (mg/kg)
NMOC D ACTION LEVEL			100	100
SC-1	2/27/13	12	1,926	>5,000
SC-2	2/27/13	1 to 12	9.6	94.4
SC-3	2/27/13	1 to 12	2.5	44.3
SC-4	2/27/13	1 to 12	2.3	88.3
SC-5	2/27/13	1 to 12	4.5	24.8

NA - NOT ANALYZED



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: Sheets #4

Date: 6/26/2012

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	6/26/2012	10:05	North	76.2	40	10:41	1,580	20.0	1	DAW
S-2	6/26/2012	10:07	East	18.8	40	10:46	1,810	20.0	1	DAW
S-3	6/26/2012	10:09	South	2.4	40	10:48	77.4	20.0	1	DAW
S-4	6/26/2012	10:11	West	51.7	40	10:52	>2,500	20.0	1	DAW
S-5	6/26/2012	10:15	Center	3.8	40	10:56	211	20.0	1	DAW

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

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:

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Sheets #4

Date: 8/6/2012

Matrix: Soil

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

Durango, Colorado
970-403-3084

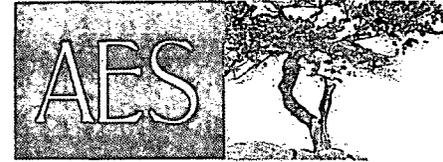
Sample ID	Collection Date	Time of Sample Collection	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 6'	8/6/2012	10:37	7.6	Not analyzed for field TPH				
SB-1 @ 8'	8/6/2012	10:47	149	Not analyzed for field TPH				
SB-1 @ 9.5'	8/6/2012	11:00	2,365	11:26	6,533	200	10	HMW
SB-2 @ 4'	8/6/2012	11:13	4.6	Not analyzed for field TPH				
SB-2 @ 6'	8/6/2012	11:30	3.5	11:53	143	20.0	1	HMW
SB-3 @ 6'	8/6/2012	11:47	5.3	Not analyzed for field TPH				
SB-3 @ 8'	8/6/2012	11:57	2.7	12:23	117	20.0	1	HMW
SB-4 @ 6'	8/6/2012	12:18	20.9	Not analyzed for field TPH				
SB-4 @ 8'	8/6/2012	12:41	2,344	Not analyzed for field TPH				
SB-4 @ 10'	8/6/2012	12:56	3,797	Not analyzed for field TPH				
SB-4 @ 12'	8/6/2012	13:07	2,204	Not analyzed for field TPH				
SB-5 @ 4'	8/6/2012	13:15	10.1	Not analyzed for field TPH				
SB-5 @ 6'	8/6/2012	13:26	51.2	13:53	2,246	20.0	1	HMW
SB-6 @ 6'	8/6/2012	13:36	2.7	Not analyzed for field TPH				
SB-6 @ 8'	8/6/2012	13:58	9.9	Not analyzed for field TPH				
SB-6 @ 10.5'	8/6/2012	14:11	12.5	14:38	117	20.0	1	HMW
SB-7 @ 6'	8/6/2012	14:19	9.1	Not analyzed for field TPH				
SB-7 @ 7'	8/6/2012	14:24	8.8	14:54	95.1	20.0	1	HMW
SB-8 @ 6'	8/6/2012	14:33	7.7	15:06	105	20.0	1	HMW
SB-9 @ 6'	8/6/2012	14:40	9.9	15:11	90.5	20.0	1	HMW

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

Total Petroleum Hydrocarbons - USEPA 418.1
 *Field TPH concentrations recorded may be below PQL.

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: Sheets #4

Date: 2/27/2013

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	2/27/2013	8:15	Base	1,926	9:08	>5,000	40.0	1	HMW
SC-2	2/27/2013	8:18	West Wall	9.6	9:10	94.4	20.0	1	HMW
SC-3	2/27/2013	9:43	South Wall	2.5	10:00	44.3	20.0	1	HMW
SC-4	2/27/2013	9:40	East Wall	2.3	9:57	88.3	20.0	1	HMW
SC-5	2/27/2013	8:28	North Wall	4.5	9:17	24.8	20.0	1	HMW

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

Total Petroleum Hydrocarbons - USEPA 418.1
 *Field TPH concentrations recorded may be below PQL.

Analyst:

Heather M. Woods



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

June 29, 2012

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

RE: CoP Sheets #4

OrderNo.: 1206B26

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/27/2012 for the analyses presented in the following report.

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: CoP Sheets #4

Collection Date: 6/26/2012 10:17:00 AM

Lab ID: 1206B26-001

Matrix: MEOH (SOIL)

Received Date: 6/27/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	2700	97		mg/Kg	10	6/27/2012 1:18:25 PM
Surr: DNOP	0	77.6-140	S	%REC	10	6/27/2012 1:18:25 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	30		mg/Kg	20	6/27/2012 11:39:56 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	6/27/2012 1:51:06 PM
Toluene	ND	0.050		mg/Kg	1	6/27/2012 1:51:06 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2012 1:51:06 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2012 1:51:06 PM
Surr: 1,2-Dichloroethane-d4	81.8	70-130		%REC	1	6/27/2012 1:51:06 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	6/27/2012 1:51:06 PM
Surr: Dibromofluoromethane	84.1	71.7-132		%REC	1	6/27/2012 1:51:06 PM
Surr: Toluene-d8	88.7	70-130		%REC	1	6/27/2012 1:51:06 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	80	5.0		mg/Kg	1	6/27/2012 1:51:06 PM
Surr: BFB	105	70-130		%REC	1	6/27/2012 1:51:06 PM

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206B26

29-Jun-12

Client: Animas Environmental Services

Project: CoP Sheets #4

Sample ID: 1206A27-003BMS	SampType: MS	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: 2593	RunNo: 3740								
Prep Date: 6/27/2012	Analysis Date: 6/27/2012	SeqNo: 105731	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48	7.5	15.00	33.58	97.9	64.4	117			

Sample ID: 1206A27-003BMSD	SampType: MSD	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: 2593	RunNo: 3740								
Prep Date: 6/27/2012	Analysis Date: 6/27/2012	SeqNo: 105732	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48	7.5	15.00	33.58	97.1	64.4	117	0.254	20	

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#: 1206B26

29-Jun-12

Client: Animas Environmental Services

Project: CoP Sheets #4

Sample ID: MB-2601	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 2601	RunNo: 3705								
Prep Date: 6/27/2012	Analysis Date: 6/27/2012	SeqNo: 105014	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	77.6	140			

Sample ID: LCS-2601	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 2601	RunNo: 3705								
Prep Date: 6/27/2012	Analysis Date: 6/27/2012	SeqNo: 105019	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.3	52.6	130			
Surr: DNOP	4.2		5.000		85.0	77.6	140			

Sample ID: 1206A97-001AMS	SampType: MS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 2601	RunNo: 3730								
Prep Date: 6/27/2012	Analysis Date: 6/28/2012	SeqNo: 105493	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.9	49.50	0	84.6	57.2	146			
Surr: DNOP	4.4		4.950		88.7	77.6	140			

Sample ID: 1206A97-001AMSD	SampType: MSD	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 2601	RunNo: 3730								
Prep Date: 6/27/2012	Analysis Date: 6/28/2012	SeqNo: 105523	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.40	0	82.9	57.2	146	0.286	24.5	
Surr: DNOP	4.3		5.040		84.9	77.6	140	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206B26

29-Jun-12

Client: Animas Environmental Services

Project: CoP Sheets #4

Sample ID: 5ml rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R3719	RunNo: 3719								
Prep Date:	Analysis Date: 6/27/2012	SeqNo: 105656	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	0.43		0.5000		86.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		85.5	71.7	132			
Surr: Toluene-d8	0.45		0.5000		89.9	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R3719	RunNo: 3719								
Prep Date:	Analysis Date: 6/27/2012	SeqNo: 105657	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	92.9	70.7	123			
Toluene	0.91	0.050	1.000	0	91.5	80	120			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.0	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.40		0.5000		79.4	71.7	132			
Surr: Toluene-d8	0.43		0.5000		85.4	70	130			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206B26

29-Jun-12

Client: Animas Environmental Services

Project: CoP Sheets #4

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015B Mod: Gasoline Range								
Client ID: LCSS	Batch ID: R3719	RunNo: 3719								
Prep Date:	Analysis Date: 6/27/2012	SeqNo: 105644	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	98.0	85	115			
Surr: BFB	470		500.0		94.2	70	130			

Sample ID: 1206b23-002a ms g	SampType: MS	TestCode: EPA Method 8015B Mod: Gasoline Range								
Client ID: BatchQC	Batch ID: R3719	RunNo: 3719								
Prep Date:	Analysis Date: 6/27/2012	SeqNo: 105646	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	20.13	0	100	70	130			
Surr: BFB	350		402.7		86.8	70	130			

Sample ID: 1206b23-002a msd g	SampType: MSD	TestCode: EPA Method 8015B Mod: Gasoline Range								
Client ID: BatchQC	Batch ID: R3719	RunNo: 3719								
Prep Date:	Analysis Date: 6/27/2012	SeqNo: 105647	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	20.13	0	97.7	70	130	2.67	20	
Surr: BFB	360		402.7		88.7	70	130	0	0	

Sample ID: 5ml rb	SampType: MBLK	TestCode: EPA Method 8015B Mod: Gasoline Range								
Client ID: PBS	Batch ID: R3719	RunNo: 3719								
Prep Date:	Analysis Date: 6/27/2012	SeqNo: 105678	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	480		500.0		96.0	70	130			

Qualifiers:

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

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



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4101
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1206B26
 Received by/date: [Signature] 06/27/12
 Logged By: Lindsay Mangin 6/27/2012 10:00:00 AM [Signature]
 Completed By: Lindsay Mangin 6/27/2012 10:30:34 AM [Signature]
 Reviewed By: [Signature] 06/27/12

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes			



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

March 01, 2013

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP Sheets #4

OrderNo.: 1302915

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/28/2013 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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1302915
 Date Reported: 3/1/2013

CLIENT: Animas Environmental Services
Project: CoP Sheets #4
Lab ID: 1302915-001

Client Sample ID: SC-1
Collection Date: 2/27/2013 8:15:00 AM
Received Date: 2/28/2013 9:59:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	2300	100		mg/Kg	10	2/28/2013 1:00:13 PM
Surr: DNOP	0	72.4-120	S	%REC	10	2/28/2013 1:00:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	850	50		mg/Kg	10	2/28/2013 11:42:53 AM
Surr: BFB	723	84-116	S	%REC	10	2/28/2013 11:42:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	10	2/28/2013 11:42:53 AM
Toluene	ND	0.50		mg/Kg	10	2/28/2013 11:42:53 AM
Ethylbenzene	2.8	0.50		mg/Kg	10	2/28/2013 11:42:53 AM
Xylenes, Total	22	1.0		mg/Kg	10	2/28/2013 11:42:53 AM
Surr: 4-Bromofluorobenzene	138	80-120	S	%REC	10	2/28/2013 11:42:53 AM

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302915

01-Mar-13

Client: Animas Environmental Services

Project: CoP Sheets #4

Sample ID	MB-6278	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6278	RunNo:	8891					
Prep Date:	2/28/2013	Analysis Date:	2/28/2013	SeqNo:	254152	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	72.4	120			

Sample ID	LCS-6278	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6278	RunNo:	8891					
Prep Date:	2/28/2013	Analysis Date:	2/28/2013	SeqNo:	254153	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	47.4	122			
Surr: DNOP	5.6		5.000		112	72.4	120			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302915

01-Mar-13

Client: Animas Environmental Services

Project: CoP Sheets #4

Sample ID	MB-6270	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R8894	RunNo:	8894					
Prep Date:	2/27/2013	Analysis Date:	2/28/2013	SeqNo:	254504	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	1100		1000		106	84	116			

Sample ID	LCS-6270	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R8894	RunNo:	8894					
Prep Date:	2/27/2013	Analysis Date:	2/28/2013	SeqNo:	254505	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	129	62.6	136			
Surr: BFB	1400		1000		138	84	116			S

Sample ID	MB-6270	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	6270	RunNo:	8894					
Prep Date:	2/27/2013	Analysis Date:	2/28/2013	SeqNo:	254526	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		106	84	116			

Sample ID	LCS-6270	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	6270	RunNo:	8894					
Prep Date:	2/27/2013	Analysis Date:	2/28/2013	SeqNo:	254527	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1400		1000		138	84	116			S

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#: 1302915

01-Mar-13

Client: Animas Environmental Services

Project: CoP Sheets #4

Sample ID: MB-6270	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 6270	RunNo: 8894								
Prep Date: 2/27/2013	Analysis Date: 2/28/2013	SeqNo: 254558	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: LCS-6270	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 6270	RunNo: 8894								
Prep Date: 2/27/2013	Analysis Date: 2/28/2013	SeqNo: 254559	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		115	80	120			

Sample ID: 1302914-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch ID: R8894	RunNo: 8894								
Prep Date:	Analysis Date: 2/28/2013	SeqNo: 254599	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.51	0.050	0.5368	0	94.1	67.2	113			
Toluene	0.50	0.050	0.5368	0	93.5	62.1	116			
Ethylbenzene	0.51	0.050	0.5368	0	94.3	67.9	127			
Xylenes, Total	1.5	0.10	1.610	0	95.5	60.6	134			
Surr: 4-Bromofluorobenzene	0.61		0.5368		113	80	120			

Sample ID: 1302914-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch ID: R8894	RunNo: 8894								
Prep Date:	Analysis Date: 2/28/2013	SeqNo: 254600	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.50	0.050	0.5368	0	92.5	67.2	113	1.74	14.3	
Toluene	0.49	0.050	0.5368	0	91.6	62.1	116	1.98	15.9	
Ethylbenzene	0.50	0.050	0.5368	0	92.5	67.9	127	1.89	14.4	
Xylenes, Total	1.5	0.10	1.610	0	92.8	60.6	134	2.83	12.6	
Surr: 4-Bromofluorobenzene	0.46		0.5368		86.1	80	120	0	0	

Qualifiers:

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Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1302915**
 Received by/date: AG 02/28/13
 Logged By: **Anne Thorne** 2/28/2013 9:59:00 AM *Anne Thorne*
 Completed By: **Anne Thorne** 2/28/2013 *Anne Thorne*
 Reviewed By: IO 02/28/2013

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

