

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 Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th Street, Farmington, NM 87402	Telephone No. 505-326-9786
Facility Name San Juan 27-4 Unit 27	Facility Type Gas Well

Surface Owner BLM	Mineral Owner BLM	API No. 3003906792
--------------------------	--------------------------	---------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	33	27N	4W	1090'	South	1990'	West	Rio Arriba

Latitude 36.52565 Longitude -107.25784

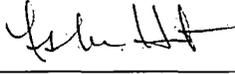
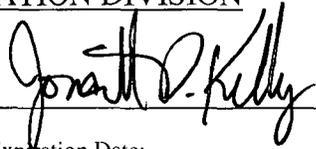
NATURE OF RELEASE

Type of Release Produced Water Condensate	Volume of Release Produced Water 10.02 BBL Condensate 11.67 BBL	Volume Recovered 0 BBL 0 BBL
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 03-08-2013; 8:45 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell - NMOCD Mark Kelly - BLM FFO J.J. Miller - USFS	RCVD JUN 6 '13 OIL CONS. DIV.
By Whom? Crystal Tafoya	Date and Hour NMOCD - 03-08-2013 @ 12:16 PM BLM FFO - 03-08-2013 @ 12:15 PM USFS - 03-08-2013 @ 12:16 PM	DIST. 3
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.*
Production tank developed a leak due to corrosion causing the release of 10.02 BBLs of Produced Water and 11.67 BBLs of Condensate. Zero BBLs were recovered.

Describe Area Affected and Cleanup Action Taken.*
ConocoPhillips will replace the tank and assess the soils to determine further action, if needed. **Excavation was 30' x 30' x 3' Deep. 120 c/yds of soil was transported to TNT Land Farm and 120 c/yds of clean soil was transported from TNT, and placed in the excavation site. Excavation terminated at sandstone, NMOCD and USFS approved to leave in place and backfill on May 7, 2013 - 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.

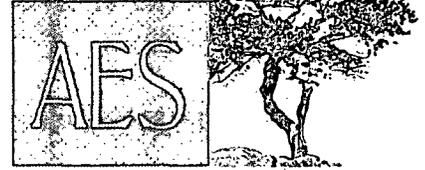
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 9/24/2013	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>

nJK1326712910

34

Date: June 4, 2013 Phone: 505-326-9786		
--	--	--

* Attach Additional Sheets If Necessary



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

June 3, 2013

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

**RE: Initial Release Assessment and Final Excavation Report
San Juan 27-4 #27
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

On March 12 and May 6, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 27-4 #27, located in Rio Arriba County, New Mexico. The release consisted of approximately 11.7 barrels (bbls) hydrocarbon and 10 bbls produced water from an onsite production tank. The final excavation was completed by contractors prior to AES' arrival to the location on May 6, 2013.

1.0 Site Information

1.1 Location

Location - SE¼ SW¼, Section 33, T27N, R4W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude - N36.52589 and W107.25871, respectively
Release Location Latitude/Longitude – N36.52579 and W107.25829, respectively
Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report dated April 1996 for the San Juan 27-4 #27 reported the depth to groundwater as 110 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery

Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. An unnamed wash is located approximately 130 feet east of the location and drains to Jaramillo Canyon. 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 Crystal Tafoya of CoP on March 11, 2013, and on March 12, 2013, Kelsey Christiansen and Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field screening soil of 26 soil samples from 12 soil borings (SB-1 through SB-12). Based on the field screening and laboratory analytical results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On May 6, 2013, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collecting five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The final excavation was approximately 845 square-feet by 4 to 5 feet in depth. Note that the base of the excavation was terminated on competent sandstone. Sample locations and final excavation extents are shown on Figure 4.

2.0 Soil Sampling

A total of 26 soil samples were collected from 12 soil borings (SB-1 through SB-12) during the initial assessment. Additionally, five 5-point composite soil samples (SC-1 through SC-5) were collected during the final excavation clearance sampling. All soil samples were field screened for volatile organic compounds (VOCs) and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two of the soil samples collected during the initial assessment (SB-2 and SB-8) and one composite sample (SC-5) collected during the excavation were submitted for confirmation laboratory analysis.

2.1 *Field Screening*

2.1.1 **Volatile Organic Compounds**

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 **Total Petroleum Hydrocarbons**

Field TPH samples were analyzed per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.2 *Laboratory Analyses*

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 *Field Screening and Laboratory Analytical Results*

On March 12, 2013, initial assessment field screening readings for VOCs via OVM ranged from 0.0 ppm in 11 samples up to 3,224 ppm in SB-7. Field TPH concentrations ranged from less than 20.0 mg/kg in four samples up to greater than 5,000 mg/kg in four samples.

On May 6, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 1.6 ppm in SC-3 to 285 ppm in SC-5. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-1 up to 185 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results
 San Juan 27-4 #27 Initial Release Assessment and Final Excavation
 March and May 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<i>NMOCD Action Level*</i>			100	100
SB-1	3/12/13	Surface	1,423	NA
		1	1,730	NA
		1.5	1,747	>5,000
SB-2	3/12/13	Surface	203	NA
		2	1,639	NA
		4	1,575	NA
		5	1,335	>5,000
SB-3	3/12/13	0.5	31.4	23.9
		0.75	0.0	NA
SB-4	3/12/13	1	16.9	<20.0
		5	1.2	NA
SB-5	3/12/13	0.5	0.0	<20.0
SB-6	3/12/13	0.5	0.0	<20.0
		1	0.0	NA
SB-7	3/12/13	Surface	3,224	NA
		0.5	2,204	NA
		1	1,831	>5,000
SB-8	3/12/13	Surface	2,177	NA
		0.5	2,246	>5,000
SB-9	3/12/13	Surface	0.0	NA
		1.25	0.0	<20.0
SB-10	3/12/13	Surface	0.0	NA
		0.5	0.0	NA
SB-11	3/12/13	0.5	0.0	NA
SB-12	3/12/13	0.5	0.0	NA
		2	0.0	NA
SC-1	5/6/13	1 to 4	3.7	<20.0

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
NMOCD Action Level*			100	100
SC-2	5/6/13	1 to 4	1.9	25.7
SC-3	5/6/13	1 to 4	1.6	29.7
SC-4	5/6/13	1 to 4	18.9	45.8
SC-5	5/6/13	4 to 5	285	185

NA – not analyzed

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

Laboratory analyses for SB-2 and SB-8 were used to confirm field screening results from the initial assessment. Benzene concentrations were reported below the laboratory detection limits in each sample. Total BTEX concentrations were reported at 312 mg/kg in SB-2 and 131 mg/kg in SB-8. TPH concentrations (as GRO/DRO) were reported at 4,480 mg/kg in SB-2 and 2,590 mg/kg in SB-2.

Laboratory analytical results for SC-5 were used to confirm field screening results during excavation activities. The benzene concentration was reported below the laboratory detection limit of 0.050 mg/kg and total BTEX was reported at 1.2 mg/kg. TPH as GRO/DRO was reported at 172 mg/kg. Results are presented in Table 2 and on Figure 3. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
San Juan 27-4 #27 Initial Release Assessment and Final Excavation
March and May 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMOCD Action Level*			10	50	100	
SB-2	3/12/13	5	<0.047	312	3,500	980
SB-8	3/12/13	0.5	<0.048	131	1,600	990
SC-5	5/6/13	4 to 5	<0.050	1.2	42	130

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

3.0 Conclusions and Recommendations

On March 12, 2013, AES conducted an initial assessment of petroleum contaminated soils associated with a release from a production tank at the San Juan 27-4 #27. 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 score of 20. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in SB-1, SB-2, SB-7, and SB-8, with the highest VOC concentration reported in SB-7 with 3,224 ppm. Field screening TPH results above the NMOCD action level of 100 mg/kg were reported in SB-1, SB-2, SB-7, and SB-8, with concentrations exceeding 5,000 mg/kg.

Laboratory analytical results from March 12, 2013, reported benzene concentrations below the NMOCD action level of 10 mg/kg in each of the samples. Total BTEX concentrations exceeded NMOCD action levels of 50 mg/kg in SB-2 (312 mg/kg) and SB-8 (131 mg/kg). TPH concentrations as GRO/DRO were also reported above the NMOCD action level of 100 mg/kg in SB-2 (4,480 mg/kg) and SB-8 (2,590 mg/kg).

On May 6, 2013, a final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels for all of the final four walls of the excavation. However, field screening results for the base (SC-5) of the excavation showed VOC and TPH concentrations above applicable NMOCD action levels. Laboratory analytical results for SC-5 (taken from the base of the excavation, which was terminated at sandstone) showed that the total BTEX concentration was reported below the NMOCD action level of 50 mg/kg. However, TPH as GRO/DRO exceeded the NMOCD action level of 100 mg/kg with 172 mg/kg.

Based on the final field screening results of the excavation of petroleum contaminated soils at the San Juan 27-4 #27, VOC and TPH concentrations were below applicable NMOCD action levels for the final four walls of the excavation. However, the base of the excavation (sandstone) exceeded the applicable NMOCD action level for TPH. CoP received verbal approval to backfill the final excavation from Brandon Powell of the NMOCD on May 7, 2013. No further work is recommended for the San Juan 27-4 #27.

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

Sincerely,

Heather M. Woods

Heather M. Woods
Staff Geologist

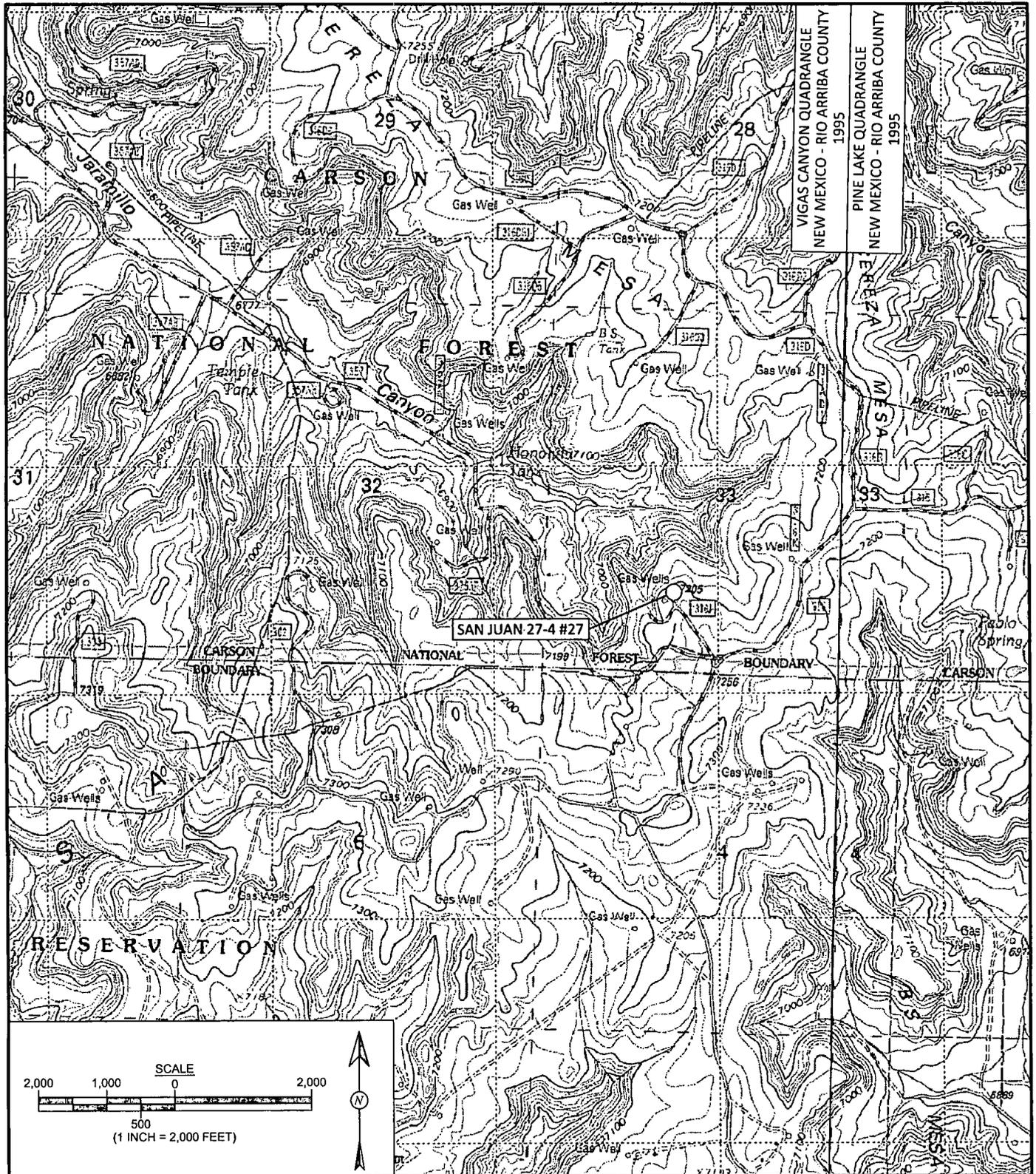
Elizabeth McNally

Elizabeth McNally, PE

Attachments:

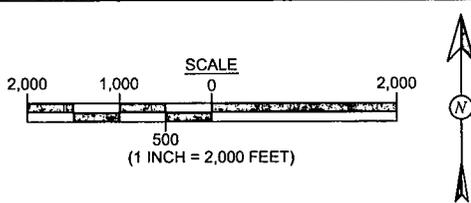
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2013
- Figure 3. Initial Assessment Sample Locations and Results, March 2013
- Figure 4. Final Excavation Sample Locations and Results, May 2013
- AES Field Screening Report 031213
- AES Field Screening Report 050613
- Hall Laboratory Analytical Reports 1303592 and 1305211

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 27-4 #27\SJ 27-4 #27 Release and Final Excavation Report 060313.docx



VIGAS CANYON QUADRANGLE
NEW MEXICO - RIO ARRIBA COUNTY
1995

PINE LAKE QUADRANGLE
NEW MEXICO - RIO ARRIBA COUNTY
1995



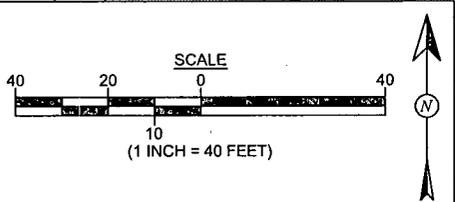
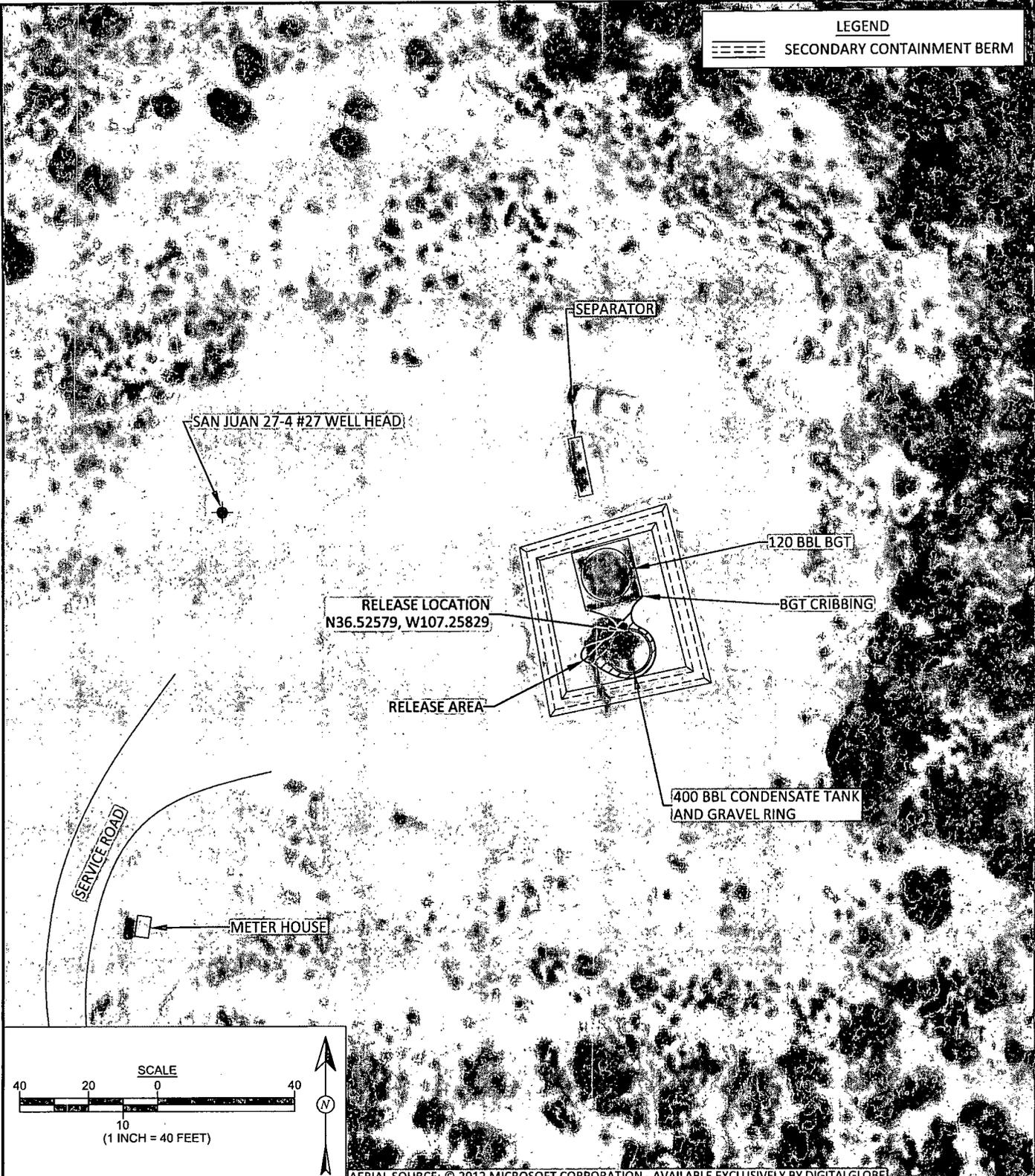
Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: March 13, 2013
REVISIONS BY: C. Lameman	DATE REVISED: March 13, 2013
CHECKED BY: D. Watson	DATE CHECKED: March 13, 2013
APPROVED BY: E. McNally	DATE APPROVED: March 13, 2013

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
SAN JUAN 27-4 #27
SE¼ SW¼, SECTION 33, T27N, R4W
RIO ARRIBA COUNTY, NEW MEXICO
N36.52589, W107.25871

LEGEND
 **SECONDARY CONTAINMENT BERM**



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



DRAWN BY: C. Lameman	DATE DRAWN: March 13, 2013
REVISIONS BY: C. Lameman	DATE REVISED: March 13, 2013
CHECKED BY: D. Watson	DATE CHECKED: March 13, 2013
APPROVED BY: E. McNally	DATE APPROVED: March 13, 2013

FIGURE 2
AERIAL SITE MAP
MARCH 2013
 ConocoPhillips
 SAN JUAN 27-4 #27
 SE¼ SW¼, SECTION 33, T27N, R4W
 RIO ARriba COUNTY, NEW MEXICO
 N36.52589, W107.25871

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 27-4 #27

Date: 3/12/2013

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 @ Surface	3/12/2013	10:40	1,423	Not Analyzed for TPH				
SB-1 @ 1'	3/12/2013	10:43	1,730	Not Analyzed for TPH				
SB-1 @ 1.5'	3/12/2013	10:46	1,747	13:18	>5,000	40.0	1	CL
SB-2 @ Surface	3/12/2013	10:50	203	Not Analyzed for TPH				
SB-2 @ 2'	3/12/2013	10:55	1,639	Not Analyzed for TPH				
SB-2 @ 4'	3/12/2013	10:57	1,575	Not Analyzed for TPH				
SB-2 @ 5'	3/12/2013	11:00	1,335	13:22	>5,000	40.0	1	CL
SB-3 @ 0.5'	3/12/2013	11:01	31.4	12:25	23.9	20.0	1	CL
SB-3 @ 0.75'	3/12/2013	11:02	0.0	Not Analyzed for TPH				
SB-4 @ 1'	3/12/2013	11:07	16.9	12:29	<20.0	20.0	1	CL
SB-4 @ 5'	3/12/2013	11:13	1.2	Not Analyzed for TPH				
SB-5 @ 0.5'	3/12/2013	11:20	0.0	12:32	<20.0	20.0	1	CL
SB-6 @ 0.5'	3/12/2013	11:24	0.0	12:35	<20.0	20.0	1	CL
SB-6 @ 1'	3/12/2013	11:29	0.0	Not Analyzed for TPH				
SB-7 @ Surface	3/12/2013	11:35	3,224	Not Analyzed for TPH				
SB-7 @ 0.5'	3/12/2013	11:38	2,204	Not Analyzed for TPH				
SB-7 @ 1'	3/12/2013	11:42	1,831	14:05	>5,000	40.0	1	CL
SB-8 @ Surface	3/12/2013	11:48	2,177	Not Analyzed for TPH				
SB-8 @ 0.5'	3/12/2013	11:57	2,246	14:08	>5,000	40.0	1	CL
SB-9 @ Surface	3/12/2013	12:01	0.0	Not Analyzed for TPH				
SB-9 @ 1.25'	3/12/2013	12:10	0.0	13:56	<20.0	20.0	1	CL
SB-10 @ Surface	3/12/2013	12:14	0.0	Not Analyzed for TPH				

San Juan 27-4 #27

Page 1

Report Finalized: 03/12/13

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-10 @ 0.5'	3/12/2013	12:17	0.0		Not Analyzed for TPH			
SB-11 @ 0.5'	3/12/2013	12:21	0.0		Not Analyzed for TPH			
SB-12 @ 0.5'	3/12/2013	12:28	0.0		Not Analyzed for TPH			
SB-12 @ 2'	3/12/2013	12:35	0.0		Not Analyzed for TPH			

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst:



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 27-4 #27

Date: 5/6/2013

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	5/6/2013	10:08	North Wall	3.7	10:46	<20.0	20.0	1	HMW
SC-2	5/6/2013	10:10	East Wall	1.9	10:51	25.7	20.0	1	HMW
SC-3	5/6/2013	10:12	South Wall	1.6	10:48	29.7	20.0	1	HMW
SC-4	5/6/2013	10:14	West Wall	18.9	10:53	45.8	20.0	1	HMW
SC-5	5/6/2013	10:16	Base	285	10:55	185	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.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Leather M. Woods*



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

March 22, 2013

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

RE: COP San Juan 27-4 #27

OrderNo.: 1303592

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/14/2013 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.

CLIENT: Animas Environmental Services

Client Sample ID: SB-2@5'

Project: COP San Juan 27-4 #27

Collection Date: 3/12/2013 11:00:00 AM

Lab ID: 1303592-001

Matrix: SOIL

Received Date: 3/14/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	980	10		mg/Kg	1	3/21/2013 10:56:37 AM
Surr: DNOP	127	72.4-120	S	%REC	1	3/21/2013 10:56:37 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	3500	470		mg/Kg	100	3/18/2013 4:25:01 PM
Surr: BFB	190	84-116	S	%REC	100	3/18/2013 4:25:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	3/17/2013 5:40:02 AM
Toluene	49	4.7		mg/Kg	100	3/18/2013 4:25:01 PM
Ethylbenzene	23	4.7		mg/Kg	100	3/18/2013 4:25:01 PM
Xylenes, Total	240	9.4		mg/Kg	100	3/18/2013 4:25:01 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	100	3/18/2013 4:25:01 PM

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: COP San Juan 27-4 #27
Lab ID: 1303592-002

Client Sample ID: SB-8@0.5
Collection Date: 3/12/2013 11:51:00 AM
Received Date: 3/14/2013 10:00:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	990	10		mg/Kg	1	3/21/2013 11:23:48 AM
Surr: DNOP	132	72.4-120	S	%REC	1	3/21/2013 11:23:48 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1600	240		mg/Kg	50	3/18/2013 4:53:39 PM
Surr: BFB	203	84-116	S	%REC	50	3/18/2013 4:53:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	3/17/2013 6:10:14 AM
Toluene	11	2.4		mg/Kg	50	3/18/2013 4:53:39 PM
Ethylbenzene	9.8	2.4		mg/Kg	50	3/18/2013 4:53:39 PM
Xylenes, Total	110	4.8		mg/Kg	50	3/18/2013 4:53:39 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	50	3/18/2013 4:53:39 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#: 1303592

22-Mar-13

Client: Animas Environmental Services

Project: COP San Juan 27-4 #27

Sample ID	MB-6574	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6574	RunNo:	9285					
Prep Date:	3/20/2013	Analysis Date:	3/20/2013	SeqNo:	264882	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		113	72.4	120			

Sample ID	LCS-6574	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6574	RunNo:	9285					
Prep Date:	3/20/2013	Analysis Date:	3/20/2013	SeqNo:	264883	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	47.4	122			
Surr: DNOP	5.3		5.000		106	72.4	120			

Sample ID	MB-6604	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6604	RunNo:	9311					
Prep Date:	3/21/2013	Analysis Date:	3/21/2013	SeqNo:	265889	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		122	72.4	120			S

Sample ID	LCS-6604	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6604	RunNo:	9311					
Prep Date:	3/21/2013	Analysis Date:	3/21/2013	SeqNo:	265890	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	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#: 1303592

22-Mar-13

Client: Animas Environmental Services

Project: COP San Juan 27-4 #27

Sample ID	MB-6486	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262878	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	80	120			

Sample ID	LCS-6486	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262879	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	1303551-021AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262882	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		0.9434		103	80	120			

Sample ID	1303551-021AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262883	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		0.9425		102	80	120	0	0	

Sample ID	MB-6496	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	6496	RunNo:	9235					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	262892	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	0.99		1.000		98.8	80	120			

Sample ID	LCS-6496	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	6496	RunNo:	9235					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	262893	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	91.4	80	120			
Toluene	0.95	0.050	1.000	0	94.7	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
- 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#: 1303592

22-Mar-13

Client: Animas Environmental Services

Project: COP San Juan 27-4 #27

Sample ID	MB-6486	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262753	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.0	84	116			

Sample ID	LCS-6486	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262755	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.5	84	116			

Sample ID	1303551-022AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262759	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	920		959.7		96.3	84	116			

Sample ID	1303551-022AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	6486	RunNo:	9235					
Prep Date:	3/14/2013	Analysis Date:	3/16/2013	SeqNo:	262760	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		960.6		95.1	84	116	0	0	

Sample ID	MB-6496	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	6496	RunNo:	9235					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	262840	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.7	84	116			

Sample ID	LCS-6496	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	6496	RunNo:	9235					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	262848	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	112	62.6	136			
Surr: BFB	950		1000		95.2	84	116			

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#: 1303592

22-Mar-13

Client: Animas Environmental Services

Project: COP San Juan 27-4 #27

Sample ID	LCS-6496	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	6496	RunNo:	9235					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	262893	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	1303582-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	6496	RunNo:	9235					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	262895	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.048	0.9542	0	84.5	67.2	113			
Toluene	0.84	0.048	0.9542	0	88.3	62.1	116			
Ethylbenzene	0.86	0.048	0.9542	0	89.8	67.9	127			
Xylenes, Total	2.7	0.095	2.863	0	94.4	60.6	134			
Surr: 4-Bromofluorobenzene	0.96		0.9542		101	80	120			

Sample ID	1303582-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	6496	RunNo:	9235					
Prep Date:	3/15/2013	Analysis Date:	3/17/2013	SeqNo:	262896	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.048	0.9579	0	92.7	67.2	113	9.61	14.3	
Toluene	0.92	0.048	0.9579	0	96.4	62.1	116	9.19	15.9	
Ethylbenzene	0.93	0.048	0.9579	0	97.5	67.9	127	8.64	14.4	
Xylenes, Total	2.9	0.096	2.874	0	103	60.6	134	8.71	12.6	
Surr: 4-Bromofluorobenzene	0.97		0.9579		101	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 | R RPD outside accepted recovery limits |
| RL Reporting Detection Limit | S Spike Recovery outside accepted recovery limits |

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1303592
 Received by/date: MG 03/14/13
 Logged By: Lindsay Mangin 3/14/2013 10:00:00 AM *[Signature]*
 Completed By: Lindsay Mangin 3/15/2013 9:10:41 AM *[Signature]*
 Reviewed By: *[Signature]* 03/15/13

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

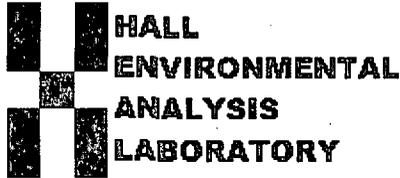
- 17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

May 08, 2013

Debbie Watson

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

RE: CoP San Juan 27-4 #27

OrderNo.: 1305211

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/7/2013 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.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP San Juan 27-4 #27

Collection Date: 5/6/2013 10:16:00 AM

Lab ID: 1305211-001

Matrix: MEOH (SOIL)

Received Date: 5/7/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: GSA
Diesel Range Organics (DRO)	130	10		mg/Kg	1	5/7/2013 11:54:41 AM
Surr: DNOP	101	63-147		%REC	1	5/7/2013 11:54:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	42	5.0		mg/Kg	1	5/7/2013 12:29:02 PM
Surr: BFB	404	80-120	S	%REC	1	5/7/2013 12:29:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	5/7/2013 12:29:02 PM
Toluene	ND	0.050		mg/Kg	1	5/7/2013 12:29:02 PM
Ethylbenzene	0.098	0.050		mg/Kg	1	5/7/2013 12:29:02 PM
Xylenes, Total	1.1	0.10		mg/Kg	1	5/7/2013 12:29:02 PM
Surr: 4-Bromofluorobenzene	117	80-120		%REC	1	5/7/2013 12:29:02 PM

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305211

08-May-13

Client: Animas Environmental

Project: CoP San Juan 27-4 #27

Sample ID: MB-7278	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 7278	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/6/2013	SeqNo: 294806			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.2	63	147			

Sample ID: MB-7280	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 7280	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/6/2013	SeqNo: 294807			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.3	63	147			

Sample ID: LCS-7278	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 7278	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/6/2013	SeqNo: 294808			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		107	63	147			

Sample ID: LCS-7280	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 7280	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/6/2013	SeqNo: 294809			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.6	63	147			

Sample ID: 1305072-004AMS	SampType: MS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 7278	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/6/2013	SeqNo: 294868			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		4.965		85.3	63	147			

Sample ID: 1305072-012AMS	SampType: MS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 7280	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/7/2013	SeqNo: 294869			Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.005		78.2	63	147			

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#: 1305211

08-May-13

Client: Animas Environmental
Project: CoP San Juan 27-4 #27

Sample ID: 1305072-004AMSD	SampType: MSD	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 7278	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/6/2013	SeqNo: 294870	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.015		92.8	63	147	0	0	

Sample ID: 1305072-012AMSD	SampType: MSD	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 7280	RunNo: 10338								
Prep Date: 5/3/2013	Analysis Date: 5/7/2013	SeqNo: 294871	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		4.995		78.4	63	147	0	0	

Sample ID: MB-7322	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 7322	RunNo: 10338								
Prep Date: 5/7/2013	Analysis Date: 5/7/2013	SeqNo: 295223	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		109	63	147			

Sample ID: LCS-7322	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 7322	RunNo: 10338								
Prep Date: 5/7/2013	Analysis Date: 5/7/2013	SeqNo: 295225	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	111	47.4	122			
Surr: DNOP	5.4		5.000		107	63	147			

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#: 1305211

08-May-13

Client: Animas Environmental

Project: CoP San Juan 27-4 #27

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R10444	RunNo: 10444								
Prep Date:	Analysis Date: 5/7/2013	SeqNo: 295711			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		96.4	80	120			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R10444	RunNo: 10444								
Prep Date:	Analysis Date: 5/7/2013	SeqNo: 295712			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	62.6	136			
Surr: BFB	1100		1000		109	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
- 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#: 1305211

08-May-13

Client: Animas Environmental
Project: CoP San Juan 27-4 #27

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R10444	RunNo: 10444								
Prep Date:	Analysis Date: 5/7/2013	SeqNo: 295716	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		103	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R10444	RunNo: 10444								
Prep Date:	Analysis Date: 5/7/2013	SeqNo: 295717	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	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1305211

RcptNo: 1

Received by/date: *mg* 05/07/13
 Logged By: Michelle Garcia 5/7/2013 9:45:00 AM
 Completed By: Michelle Garcia 5/7/2013 10:09:48 AM
 Reviewed By: *[Signature]* 05/07/13

Michelle Garcia
Michelle Garcia

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			

FORM

42

Rev
03/12

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



OGCC RECEPTION

Receive Date:

05/31/2013

Document Number:

400427133

NOTICE OF NOTIFICATION

Entity Information

OGCC Operator Number: 26580 Contact Person: Dollie Busse
Company Name: BURLINGTON RESOURCES OIL & GAS LP Phone: (505) 324-6104
Address: PO BOX 4289 Fax: ()
City: FARMINGTON State: NM Zip: 87499 Email: dollie.l.busse@cop.com

API #: 05 - 067 - 05043 - 00 Facility ID: Location ID:
Facility Name: UTE 1
Sec: 15 Twp: 32N Range: 11W QtrQtr: SESW Lat: 37.013410 Long: -108.032780

BRADENHEAD TEST - 48-hour Notice

Test Date: 06/06/2013 Time: 09:00 (HH:MM)

This form must be signed by an authorized agent of the entity making assertion.

I certify under penalty of perjury that this report has been examined by me and to the best of my knowledge is true, correct and complete.

Print Name: Dollie L. Busse Email: dollie.l.busse@cop.com
Signature: Title: Staff Regulatory Tech Date: 05/31/2013