

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

DEC 17 2015

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607
Facility Name: Rhodes C #101	Facility Type: Gas Well

Surface Owner Tribal - Navajo Nation	Mineral Owner Federal	API No. 3004528964
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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
N	30	28N	11W	100'	South	2270	West	San Juan

Latitude 36.62641 Longitude -108.04645 (North BGT)
Latitude 36.62637 Longitude -108.04648 (South BGT)

NATURE OF RELEASE

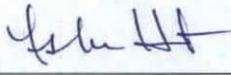
Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered None
Source of Release (2) Below Grade Tank (BGT) Closures North & South BGTs	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12-30-13
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.

Describe Area Affected and Cleanup Action Taken.*
NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 0. Samples were collected and analytical results are below applicable NMOCD action levels. No further work will be performed. 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: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 1/8/2016	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval: —	Attached <input type="checkbox"/>
Date: December 14, 2015	Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary

NMF 1600840786

20



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

January 23, 2014

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
Office 214-07
5525 Hwy 64
Farmington, New Mexico 87401

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

**RE: Below Grade Tank Closure Report
Rhodes C #101
San Juan County, New Mexico**

Dear Ms. Dumas:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with two below grade tank (BGT) closures at ConocoPhillips (CoP) Rhodes C #101, located in San Juan County, New Mexico. Removal of both tanks had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Rhodes C #101

Legal Description – SE¼ SW¼, Section 30, T28N, R11W, San Juan County, New Mexico

Well Latitude/Longitude – N36.62619 and W108.04624, respectively

North BGT Latitude/Longitude – N36.62641 and W108.04645, respectively

South BGT Latitude/Longitude – N36.62637 and W108.04648, respectively

Land Jurisdiction – Bureau of Land Management

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, December 2013

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the location was given a ranking score of 0 based on the following factors:

- **Depth to Groundwater:** A cathodic report form dated January 1994 reported dampness at 65 feet below ground surface (bgs) and fresh water at 350 feet bgs. (0 points)
- **Wellhead Protection Area:** The tank locations are not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The wash is Horn Canyon is located approximately 3,500 feet east of the location. (0 points)

1.3 BGT Closure Assessment

AES was initially contacted by Dan Rudder, CoP representative, on December 30, 2013, and on December 31, 2013, Deborah Watson and Jesse Christopherson of AES mobilized to the location. AES personnel collected six soil samples from below each BGT liner. Four samples were collected from the perimeter of each BGT footprint, one sample was collected from the center of each BGT footprint, and one sample was composited from the four perimeter samples and one center sample of each BGT.

2.0 Soil Sampling

On December 31, 2013, AES personnel conducted field screening and collected ten soil samples (S-1 through S-10) and two 5-point composites (SC-1 and SC-2) from below the BGTs. Soil samples were collected from approximately 0.5 feet below the former BGTs for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil samples SC-1 and SC-2 were field screened for VOCs and chlorides and were submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 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 SC-1 and SC-2 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 SC-1 and SC-2 collected for laboratory analysis were each placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. Each sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples SC-1 and SC-2 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chloride per USEPA Method 300.0.

In addition, sample SC-1 was laboratory analyzed for:

- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

North BGT field screening readings for VOCs via OVM were each measured at 0.0 ppm. Field TPH concentrations ranged from 28.2 mg/kg in S-2 up to 109 mg/kg in S-3. The field chloride concentration in SC-1 was 80 mg/kg.

South BGT field screening readings for VOCs via OVM were also each measured at 0.0 ppm. TPH concentrations ranged from 24.1 mg/kg in S-7 up to 43.0 mg/kg in S-8. The field chloride concentration in SC-2 was 80 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
 Rhodes C #101 BGT Closure, December 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
NMOCD Action Level (NMAC 19.15.17.13E)			--	100	250
S-1 (North)	12/31/13	0.5	0.0	41.6	NA
S-2 (North)	12/31/13	0.5	0.0	28.2	NA
S-3 (North)	12/31/13	0.5	0.0	109	NA
S-4 (North)	12/31/13	0.5	0.0	60.5	NA
S-5 (North)	12/31/13	0.5	0.0	55.1	NA
SC-1 (North)	12/31/13	0.5	0.0	NA	80
S-6 (South)	12/31/13	0.5	0.0	36.2	NA
S-7 (South)	12/31/13	0.5	0.0	24.1	NA
S-8 (South)	12/31/13	0.5	0.0	43.0	NA
S-9 (South)	12/31/13	0.5	0.0	33.5	NA
S-10 (South)	12/31/13	0.5	0.0	26.8	NA
SC-2 (South)	12/31/13	0.5	0.0	NA	80

NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.035 mg/kg and 0.175 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 3.5 mg/kg and 9.9 mg/kg, respectively. The laboratory chloride concentration was reported at 270 mg/kg.

In SC-2, laboratory analytical results reported benzene and total BTEX concentrations as less than 0.035 mg/kg and 0.176 mg/kg, respectively. The laboratory chloride concentration was reported at 660 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical report is attached.

Table 2. Soil Laboratory Analytical Results
Rhodes C #101 BGT Closure, December 2013

<i>Sample ID</i>	<i>Date Sampled</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 (NMAC 19.15.17.13E)			0.2	50	100		250
SC-1 (North)	12/31/13	0.5	<0.035	<0.175	<3.5	<9.9	270
SC-2 (South)	12/31/13	0.5	<0.035	<0.176	NA	NA	660

NA - not analyzed

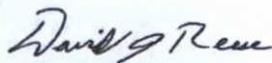
3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. For the north BGT, field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in one sample, S-3, with 109 mg/kg; however, laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 100 mg/kg. For the south BGT, field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-8 with 43.0 mg/kg. Benzene and total BTEX concentrations in SC-1 and SC-2 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively.

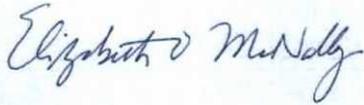
Chloride concentrations in SC-1 and SC-2 were reported above the NMOCD action level of 250 mg/kg; however, on January 2, 2014, CoP received approval to backfill the BGTs from Brandon Powell of the NMOCD. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Rhodes C #101.

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

Sincerely,



David J. Reese
Environmental Scientist

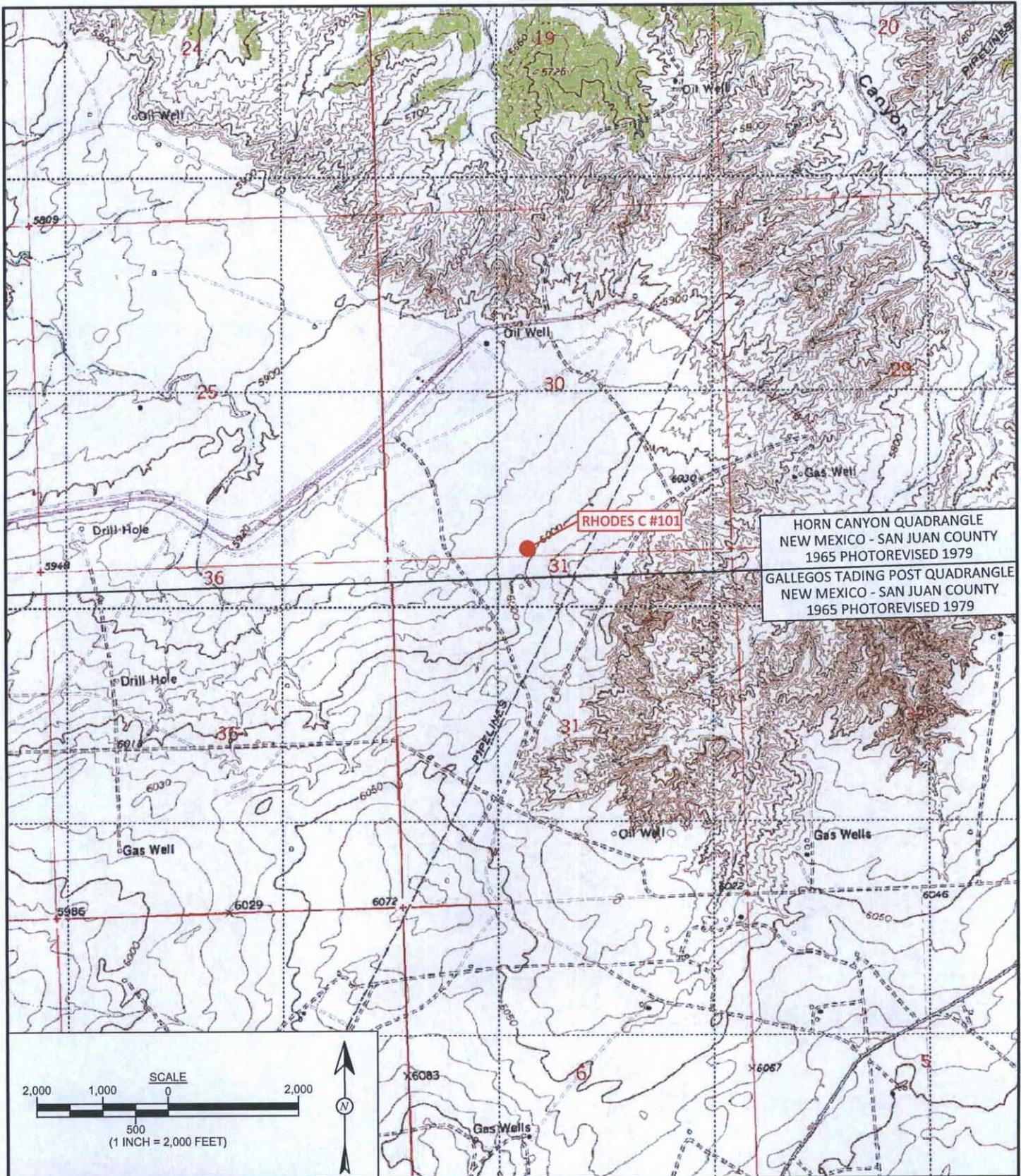


Elizabeth McNally, P.E.

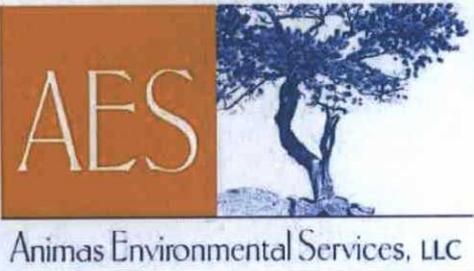
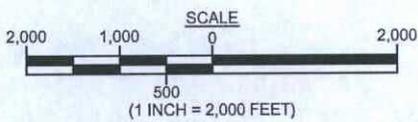
Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, December 2013
- AES Field Screening Report 123113
- Hall Analytical Report 1401004

R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\Rhodes C
#101\Rhodes C #101 BGT Closure Report 012314.docx



HORN CANYON QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 1965 PHOTOREVISED 1979
 GALLEGOS TADING POST QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 1965 PHOTOREVISED 1979



DRAWN BY: S. Glasses	DATE DRAWN: January 2, 2014
REVISIONS BY: C. Lameman	DATE REVISED: January 2, 2014
CHECKED BY: D. Watson	DATE CHECKED: January 2, 2014
APPROVED BY: E. McNally	DATE APPROVED: January 2, 2014

FIGURE 1
TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 RHODES C #101
 SE¼ SW¼, SECTION 30, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.62619, W108.04624

LEGEND

● SAMPLE LOCATIONS

Field Screening Results

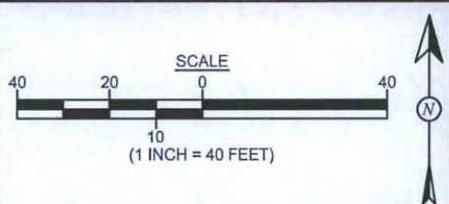
Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		--	100	250
S-1	12/31/13	0.0	41.6	NA
S-2	12/31/13	0.0	28.2	NA
S-3	12/31/13	0.0	109	NA
S-4	12/31/13	0.0	60.5	NA
S-5	12/31/13	0.0	55.1	NA
SC-1	12/31/13	0.0	NA	80
S-6	12/31/13	0.0	36.2	NA
S-7	12/31/13	0.0	24.1	NA
S-8	12/31/13	0.0	43.0	NA
S-9	12/31/13	0.0	33.5	NA
S-10	12/31/13	0.0	26.8	NA
SC-2	12/31/13	0.0	NA	80

Laboratory Analytical Results

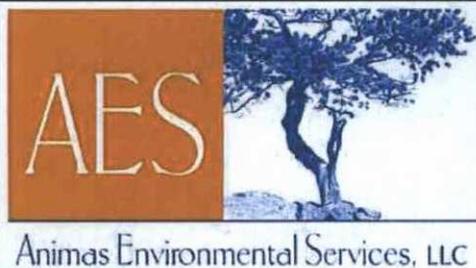
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	100		250
SC-1	12/31/13	<0.035	<0.175	<3.5	<9.9	270
SC-2	12/31/13	<0.035	<0.176	NA	NA	660

SC-1 WAS ANALYZED PER EPA METHOD 8021B, 8015D AND 300.0.
 SC-2 WAS ANALYZED PER EPA METHOD 8021B AND 300.0.

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5.
 SC-2 IS A 5-POINT COMPOSITE SAMPLE OF S-6 THROUGH S-10.
 NA - NOT ANALYZED



AERIAL SOURCE: © 2013 GOOGLE EARTH, AERIAL DATE: JUNE 10, 2011



DRAWN BY: S. Glasses	DATE DRAWN: January 2, 2014
REVISIONS BY: C. Lameman	DATE REVISED: January 2, 2014
CHECKED BY: D. Watson	DATE CHECKED: January 2, 2014
APPROVED BY: E. McNally	DATE APPROVED: January 2, 2014

FIGURE 2
AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
DECEMBER 2013
 ConocoPhillips
 RHODES C #101
 SE¼ SW¼, SECTION 30, T28N, R11W
 SAN JUAN COUNTY, NEW MEXICO
 N36.62619, W108.04624

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: Rhodes C #101 North BGT

Date: 12/31/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Locations	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	12/31/2013	11:40	North	0.0	NA	12:34	41.6	20.0	1	DAW
S-2	12/31/2013	11:41	South	0.0	NA	12:36	28.2	20.0	1	DAW
S-3	12/31/2013	11:43	East	0.0	NA	12:38	109	20.0	1	DAW
S-4	12/31/2013	11:44	West	0.0	NA	12:40	60.5	20.0	1	DAW
S-5	12/31/2013	11:45	Center	0.0	NA	12:42	55.1	20.0	1	DAW
SC-1	12/31/2013	12:00	Composite	0.0	80	Not Analyzed for TPH				

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

*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

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Rhodes C #101 South BGT

Date: 12/31/2013

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-6	12/31/2013	11:47	North	0.0	NA	12:45	36.2	20.0	1	DAW
S-7	12/31/2013	11:48	South	0.0	NA	12:47	24.1	20.0	1	DAW
S-8	12/31/2013	11:50	East	0.0	NA	12:49	43.0	20.0	1	DAW
S-9	12/31/2013	11:52	West	0.0	NA	12:51	33.5	20.0	1	DAW
S-10	12/31/2013	11:54	Center	0.0	NA	12:53	26.8	20.0	1	DAW
SC-2	12/31/2013	12:05	Composite	0.0	80	<i>Not Analyzed for TPH</i>				

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

**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:



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

January 07, 2014

Debbie Watson

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

RE: COP Rhodes C #101

OrderNo.: 1401004

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/2/2014 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1401004
 Date Reported: 1/7/2014

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: COP Rhodes C #101

Collection Date: 12/31/2013 12:00:00 PM

Lab ID: 1401004-001

Matrix: MEOH (SOIL)

Received Date: 1/2/2014 9:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2014 12:11:01 PM	11053
Surr: DNOP	86.6	66-131		%REC	1	1/2/2014 12:11:01 PM	11053
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Surr: BFB	90.5	74.5-129		%REC	1	1/2/2014 12:03:16 PM	R15860
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.035		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Toluene	ND	0.035		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Ethylbenzene	ND	0.035		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Xylenes, Total	ND	0.070		mg/Kg	1	1/2/2014 12:03:16 PM	R15860
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	1/2/2014 12:03:16 PM	R15860
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	270	30		mg/Kg	20	1/2/2014 12:05:40 PM	11057

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** SC-2
Project: COP Rhodes C #101 **Collection Date:** 12/31/2013 12:05:00 PM
Lab ID: 1401004-002 **Matrix:** MEOH (SOIL) **Received Date:** 1/2/2014 9:57:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.035		mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Toluene	ND	0.035		mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Ethylbenzene	ND	0.035		mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Xylenes, Total	ND	0.071		mg/Kg	1	1/2/2014 12:31:52 PM	R15860
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	1/2/2014 12:31:52 PM	R15860
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	660	30		mg/Kg	20	1/2/2014 12:18:04 PM	11057

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401004
07-Jan-14

Client: Animas Environmental
Project: COP Rhodes C #101

Sample ID: MB-11057	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 11057	RunNo: 15874								
Prep Date: 1/2/2014	Analysis Date: 1/2/2014	SeqNo: 457878			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-11057	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 11057	RunNo: 15874								
Prep Date: 1/2/2014	Analysis Date: 1/2/2014	SeqNo: 457879			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401004
07-Jan-14

Client: Animas Environmental
Project: COP Rhodes C #101

Sample ID MB-11053	SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 11053		RunNo: 15837							
Prep Date: 1/2/2014	Analysis Date: 1/2/2014		SeqNo: 457353		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.1		10.00		80.9	66	131			

Sample ID LCS-11053	SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 11053		RunNo: 15837							
Prep Date: 1/2/2014	Analysis Date: 1/2/2014		SeqNo: 457354		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	117	60.8	145			
Surr: DNOP	4.5		5.000		89.4	66	131			

Sample ID 1401004-001AMS	SampType: MS		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: SC-1	Batch ID: 11053		RunNo: 15837							
Prep Date: 1/2/2014	Analysis Date: 1/2/2014		SeqNo: 457425		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.05	0	95.8	47.4	148			
Surr: DNOP	4.5		5.005		89.2	66	131			

Sample ID 1401004-001AMSD	SampType: MSD		TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: SC-1	Batch ID: 11053		RunNo: 15837							
Prep Date: 1/2/2014	Analysis Date: 1/2/2014		SeqNo: 457514		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.05	0	98.5	47.4	148	2.76	22.7	
Surr: DNOP	4.5		5.005		90.5	66	131	0	0	

Qualifiers:

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- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401004

07-Jan-14

Client: Animas Environmental
Project: COP Rhodes C #101

Sample ID: MB-11036 MK	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: R15860		RunNo: 15860							
Prep Date:	Analysis Date: 1/2/2014		SeqNo: 457683		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		92.4	74.5	129			

Sample ID: LCS-11036 MK	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R15860		RunNo: 15860							
Prep Date:	Analysis Date: 1/2/2014		SeqNo: 457684		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	74.5	126			
Surr: BFB	1000		1000		103	74.5	129			

Qualifiers:

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- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1401004
 07-Jan-14

Client: Animas Environmental
Project: COP Rhodes C #101

Sample ID MB-11036 MK	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R15860	RunNo: 15860								
Prep Date:	Analysis Date: 1/2/2014	SeqNo: 457821	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID LCS-11036 MK	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R15860	RunNo: 15860								
Prep Date:	Analysis Date: 1/2/2014	SeqNo: 457822	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	113	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Qualifiers:

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
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Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1401004

RcptNo: 1

Received by/date: AG 01/02/14

Logged By: Lindsay Mangin 1/2/2014 9:57:00 AM *[Signature]*

Completed By: Lindsay Mangin 1/2/2014 10:01:48 AM *[Signature]*

Reviewed By: JB 01/02/14

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

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

Chain-of-Custody Record

Turn-Around Time:

Standard Rush same day

Project Name:

CoP Rhodes C. #101

Project #:

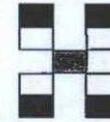
Project Manager:

D Watson

Sampler: D Watson

On Ice: Yes No

Sample Temperature: 1.0



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Animas Environmental Services LLC
 Mailing Address: 624 E Comanche Farmington NM 87401
 Phone #: 505 564 2281
 email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + EA (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO/DRO/MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chlorides	Air Bubbles (Y or N)
2-3-13	1200	Soil	SC-1	(1) 4oz (1) Meatt Kit	non Meatt non Meatt	1401001	X	X										X	
2-3-13	1205	Soil	SC-2	(1) 4oz (1) Meatt Kit	non Meatt non Meatt	1401002	X											X	

Date: 2-14-13 Time: 6:30 Relinquished by: Deborah Watson
 Received by: Dale Gallegos Date: 2/14/13 Time: 10:05 Remarks: Bill to Conaco Phillips
 Date: _____ Time: _____ Relinquished by: _____
 Received by: _____ Date: _____ Time: _____
 NO: 10350338 user: Bernale
 act code: T110 ordered by: Danny Rudder
 Super: Dale Gallegos Area: 21

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.