<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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 Notificati	ion and Corrective Act	ion
	OPERATOR	☐ Initial Report ☐ Final Report
Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter	
Address 3401 East 30 th St, Farmington, NM	Telephone No. (505) 326-978	86
Facility Name: Albino Canyon 101	Facility Type: Gas Well	
Surface Owner State Mineral Owner	er State	API No.3004528566
	ON OF RELEASE	RCVD SEP 17'14
Unit Letter Section Township Range Feet from the No Section Section No Section	orth/South Line Feet from the South 1295	East/West Line County San Juan
	654 Longitude <u>-107.63061</u>	DIL CONS. DIV.
	RE OF RELEASE	DIST. 3
Type of Release Produced Water Source of Release Production Tank	Volume of Release 15.74 B	
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 06/23/14
Was Immediate Notice Given?	If YES, To Whom?	
☐ Yes ☐ No ☐ Not Requir	<u> </u>	
By Whom? Lisa Hunter Was a Watercourse Reached?	Date and Hour 06/24/14 @ 7: If YES, Volume Impacting the	
Yes ⊠ No	If TES, Volume impacting the	watercourse.
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Production Tank found leaking during a facility reset and compre Third-Party Environmental calculated spill to be approximately 1		and tanks emptied. Delineation through
Describe Area Affected and Cleanup Action Taken.* ConocoPhillips will assess the soil to determine a path forward for impacted area. Release assessment was completed by third-party standards – no further action required. The soil sampling in	environmental and Analytical res	sults were below the NMOCD regulatory
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedor the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	se notifications and perform corrective the NMOCD marked as "Final Republiate contamination that pose a threat	re actions for releases which may endanger ort" does not relieve the operator of liability to ground water, surface water, human health
Transfer State	OIL CONSE	ERVATION DIVISION
Signature:		Aug D
Printed Name: Lisa Hunter	Approved by Environmental Spec	cialist:
Title: Field Environmental Specialist	Approval Date: 918/14	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached
Date: September 16, 2014 Phone: (505) 326-9786	<u> </u>	
* Attach Additional Sheets If Necessary	HOUS 142 61 3912	5



September 5, 2014

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

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

RE: Release Assessment Report

Albino Canyon #101

San Juan County, New Mexico

Dear Ms. Hunter:

On June 24, 2014, Animas Environmental Services, LLC (AES) completed a release assessment at the ConocoPhillips (CoP) Albino Canyon #101, located in San Juan County, New Mexico. The release consisted of an unknown quantity of produced water and was the result of corrosion holes located at the bottom of the production tank discovered during a facility reset at the location.

1.0 Site Information

1.1 Location

Site Name – Albino Canyon #101
Location – NE¼ SW¼, Section 36, T32N, R8W, San Juan County, New Mexico
Well Head Latitude/Longitude – N36.93669 and W107.63140, respectively
Release Location Latitude/Longitude – N36.93643 and W107.63114, respectively
Land Jurisdiction – State of New Mexico
Figure 1. Topographic Site Location Map

1.2 NMOCD Ranking

Figure 2. Aerial Site Map, June 2014

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 10 based on the following factors:

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

- Depth to Groundwater: A cathodic protection report form dated January 1994 for this location reported the depth to groundwater at greater than 100 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An ephemeral stream which flows through Blind Canyon and into Navajo Reservoir is located approximately 560 feet to the south. (10 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on June 24, 2014, and on the same day, Stephanie Lynn and Emilee Skyles of AES completed the release assessment field work. The assessment included collection and field sampling of six soil samples from two assessment trenches, and one composite sample collected in and around the release area. Assessment trenches were terminated at 6 feet below grade. Sample locations are presented on Figure 3.

2.0 Soil Sampling

A total of six soil samples from two assessment trenches (TH-1 and TH-2) and one composite sample (SC-1) were collected during the assessments. All soil samples from TH-1 and TH-2 were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Soil sample SC-1 was field screened for VOCs and chlorides. Four samples (TH-1 at 0.5 ft, TH-1 at 4 ft, TH-2 at 0.5 ft and TH-2 at 4 ft) were also submitted for confirmation laboratory analysis.

2.1 Field Sampling

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

2.1.3 Chlorides

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

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto 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. All soil samples were laboratory analyzed for:

Chloride per EPA Method 300.0

In addition, soil samples TH-1 at 0.5 ft and TH-2 at 0.5 ft were laboratory analyzed for:

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

2.3 Field and Laboratory Analytical Results

On June 24, 2014, release assessment field screening results for VOCs via OVM showed concentrations ranging from 0.2 ppm in TH-2 up to 1.9 ppm in TH-1. Field TPH concentrations were reported at 54.0 mg/kg inTH-1 and 51.1 mg/kg in TH-2. Results are included below in Table 1 and on Figure 3. The AES Field Sampling Report is attached.

Table 1. Field Sampling VOCs and TPH Results
Albino Canyon #101 Release Assessment, June 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMO	CD Action Lev	el*	100	1,000	NE
		0.5	1.9	54.0	NA
TH-1	6/24/14	4	0.4	NA	NA
	·	6	0.5	NA	NA
		0.5	1.2	51.1	NA
TH-2	6/24/14	4	0.5	NA	NA
	- -	6	0.2	NA	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMO	CD Action Lev	el*	100	1,000	NE
SC-1	6/24/14	0.5	0.6	NA	80

NA – not analyzed, NE – not established

Laboratory analyses for TH-1 and TH-2 were used to confirm field sampling results of the release assessment. Benzene concentrations were reported below laboratory detection limits. Total BTEX concentrations were reported as less than 0.14 mg/kg in TH-1 at 0.5 ft and less than 0.146 mg/kg in TH-2 at 0.5 ft. TPH concentrations as GRO/DRO concentrations were reported below laboratory detection limits. Chloride concentrations ranged from less than 30 mg/kg in TH-2 at 4 ft up to 150 mg/kg in TH-1 at 0.5. Results are presented in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH and Chloride Albino Canyon #101 Release Assessment, June 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	Chlorides (mg/kg)
NMO	CD Action Le	vel*	10	50	1,0	000	NE
TH-1	6/24/14	0.5	<0.028	<0.14	<2.8	<10	150
TH-1	6/24/14	4	NA	NA	NA	NA	81
TH-2	6/24/14	0.5	<0.029	<0.146	<2.9	<10	49
TH-2	6/24/14	4	NA	NA	NA	NA	<30

NA – not analyzed, NE – not established

3.0 Conclusions and Recommendations

On June 24, 2014, AES conducted a release assessment of potentially impacted soils associated with a release of produced water at the Albino Canyon #101. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

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

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

Release assessment field sampling results below the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in all samples. The highest VOC concentration was reported in TH-1 with 1.9 ppm, and the highest TPH concentration was also reported in TH-1 at 54.0 mg/kg.

Laboratory analytical results for TH-1 and TH-2 showed that benzene and total BTEX concentrations were reported below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively, in each sample. TPH concentrations as GRO/DRO were also below NMOCD action levels. Chloride concentrations ranged from less than 30 mg/kg up to 150 mg/kg in TH-1.

Based on final field sampling and laboratory analytical results of the release assessment at the Albino Canyon #101, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels. No further work is recommended.

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

Sincerely,

Emilee Skyles

Staff Geologist

Elizabeth McNally, PE

Sinh Sy L

Attachments:

Figure 1. Topographic Site Location Map

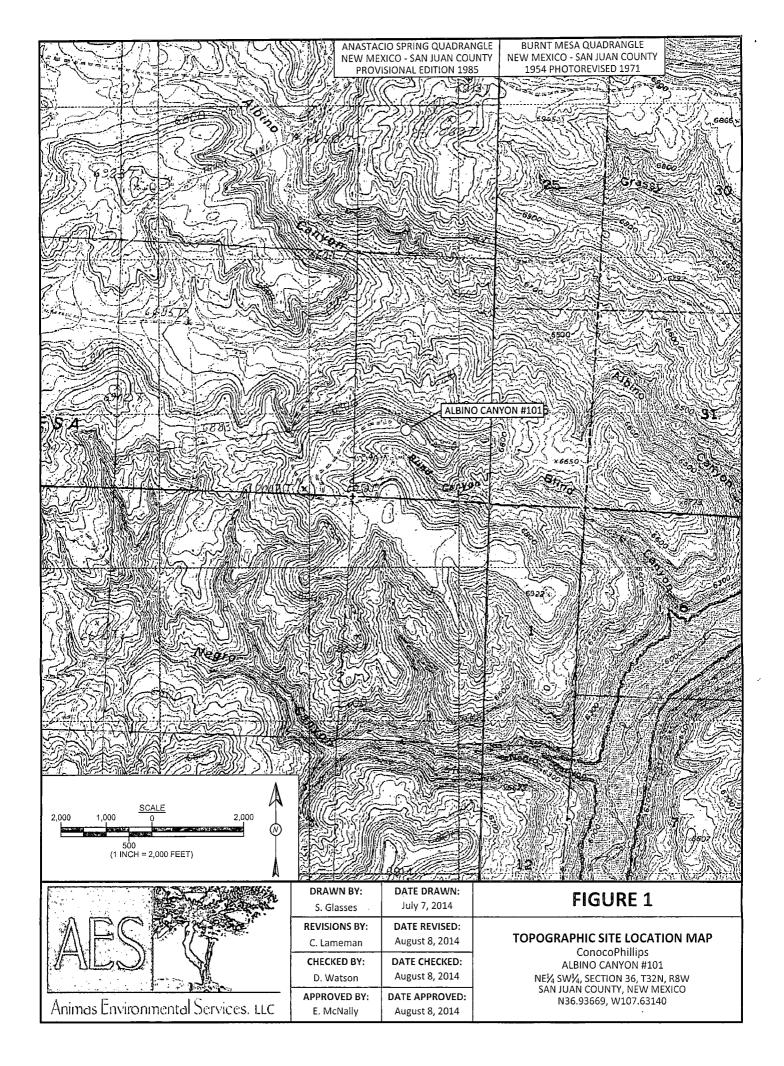
Figure 2. Aerial Site Map, June 2014

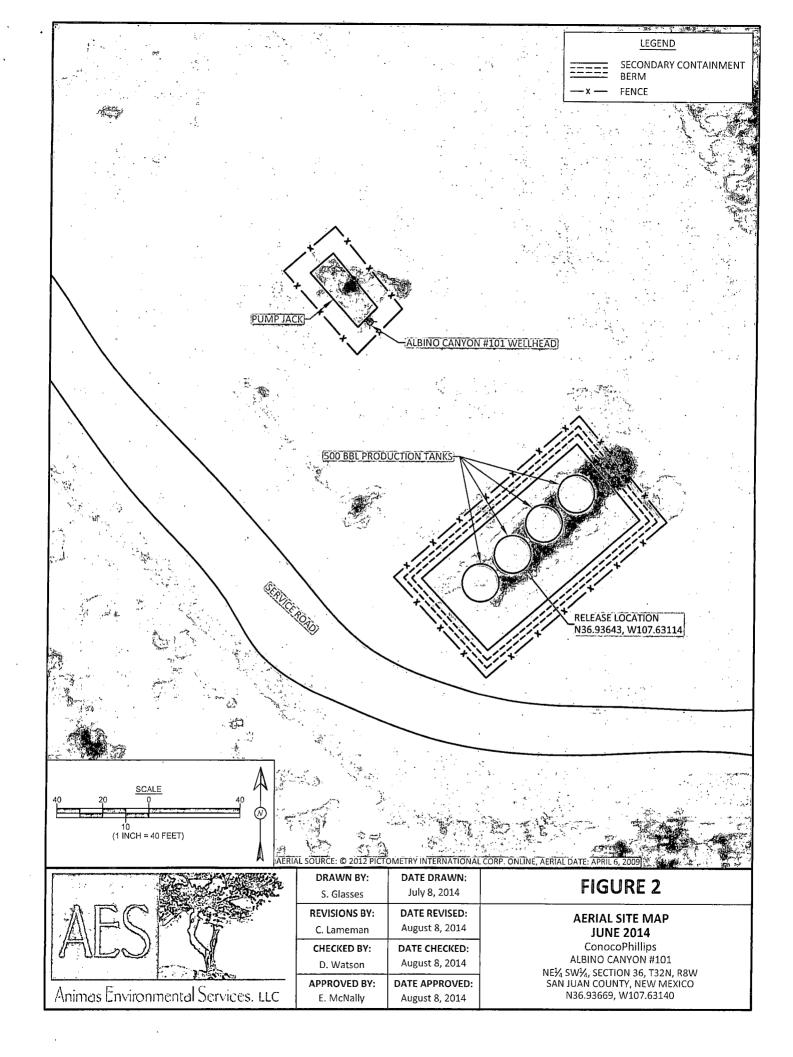
Figure 3. Release Assessment Sample Locations and Results, June 2014

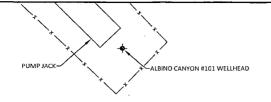
AES Field Sampling Report 062414

Hall Laboratory Analytical Report 1406B91

C:\Users\emcnally.AES\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\Albino Canyon #101\CoP Albino Canyon #101 Release Assessment Report 090514.docx







		Labo	ratory Ana	lytical Resu	Its		
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCE	ACTION L	EVEL	10	50	1,000		NE
	6/24/44	0.5	<0.028	<0.14	<2.8	<10	150
TH-1	6/24/14	4.	NA	NA	NA	NA	81
	0.5	<0.029	<0.146	<2.9	<10	49	
TH-2 6/24/14		4	NA	NA	NA	NA	<30

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B, 8015D, AND/OR 300.0. NE - NOT ESTABLISHED, NA - NOT ANALYZED

Field Sampling Results TPH Chlorides Depth Sample ID (mg/kg) (mg/kg) (ft) 1,000 NMOCD ACTION LEVEL 100 NE 0.5 54.0 NA 1.9 TH-1 6/24/14 NA NA 6 0.5 NA NA 0.5 1.2 51.1 NA TH-2 6/24/14 0.5 NA NA 0.2 NA NA 6/24/14 0.5 SC-1 0.6 NA 80

SC-1 WAS A 5-POINT COMPOSITE SAMPLE FROM THE TANK BASE. NA - NOT ANALYZED. NE - NOT ESTABLISHED.

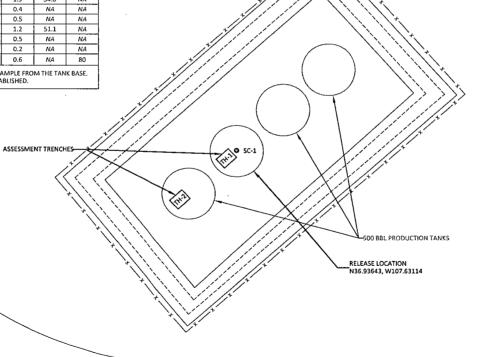


FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS

JUNE 2014 ConocoPhillips ALBINO CANYON #101 NEY, SWY, SECTION 36, T32N, R8W SAN JUAN COUNTY, NEW MEXICO N36.93669, W107.63140





Animas	Environmental Services,	LĹC

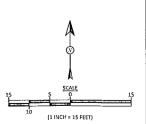
1	DRAWN BY:	DATE DRAWN:
	C. Lameman	June 25, 2014
	REVISIONS BY:	DATE REVISED:
	C. Lameman	August 8, 2014
	CHECKED BY:	DATE CHECKED:
	D. Watson	August 8, 2014
	APPROVED BY:	DATE APPROVED:
	E. McNally	August 8, 2014

LEGEND

SAMPLE LOCATIONS

===== SECONDARY CONTAINMENT BERM

-x- FENCE



AES Field Sampling Report

Client: ConocoPhillips

Project Location: Albino Canyon #101

Date: 6/24/2014

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field Chloride (mg/kg)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
TH-1 @ 0.5'	6/24/2014	16:15	1.9	NA	54.0	16:34	20.0	_ 1	SL	
TH-1 @ 4'	6/24/2014	16:40	0.4	NA		Not	Analyzed for T	РН		
TH-1 @ 6'	6/24/2014	16:43	0.5	NA		Not	Analyzed for T	РН		
TH-2 @ 0.5'	6/24/2014	16:20	1.2	NA	51.1	16:38	20.0	1	SL	
TH-2 @ 4'	6/24/2014	16:50	0.5	NA		Not.	Analyzed for T	PH		
TH-2 @ 6'	6/24/2014	16:54	0.2_	NA	Not Analyzed for TPH					
SC-1 @ 0.5'	6/24/2014	16:35	0.6	80.0	Not Analyzed for TPH					

Field Chloride - Quantab Chloride Titrators or Drop Count

Stephanicollyn

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Practical Quantitation Limit

PQL

Dilution Factor

Not Analyzed

DF

NA ND

*TPH concentrations recorded may be below PQL.

Not Detected at the Reporting Limit

Analyst:



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

OrderNo.: 1406B91

June 30, 2014

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

FAX

RE: CoP Albino Canyon 101

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/26/2014 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,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1406B91

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Lab ID:

Project: CoP Albino Canyon 101

1406B91-001

Matrix: SOIL

Client Sample ID: TH-1 @ 0.5'

Collection Date: 6/24/2014 4:15:00 PM

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG			Analyst	BCN		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/26/2014 10:25:12 AM	13911
Surr: DNOP	88.8	57.9-140	%REC	1	6/26/2014 10:25:12 AM	13911
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	2.8	mg/Kg	1	6/26/2014 9:37:40 AM	R19524
Surr: BFB	91.9	80-120	%REC	1	6/26/2014 9:37:40 AM	R19524
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene .	ND	0.028	mg/Kg	1	6/26/2014 9:37:40 AM	R19524
Toluene	ND	0.028	mg/Kg	1 ·	6/26/2014 9:37:40 AM	R19524
Ethylbenzene	ND	0.028	mg/Kg	1	6/26/2014 9:37:40 AM	R19524
Xylenes, Total	ND	0.056	mg/Kg	1	6/26/2014 9:37:40 AM	R19524
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	6/26/2014 9:37:40 AM	R19524
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	150	30	mg/Kg	20	6/26/2014 9:49:32 AM	13914

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

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

Page 1 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1406B91

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: TH-1 @ 4'

Project: CoP Albino Canyon 101

Collection Date: 6/24/2014 4:40:00 PM

Lab ID: 1406B91-002

Matrix: SOIL Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qua	l Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: JRR
Chloride	81	30	mg/Kg	20 6/26/2014 10:01:57	AM 13914

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

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

Page 2 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1406B91

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP Albino Canyon 101

1406B91-003

Lab ID:

Client Sample ID: TH-2 @ 0.5'

Collection Date: 6/24/2014 4:30:00 PM

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/26/2014 10:46:49 AF	И 13911
Surr: DNOP	88.4	57.9-140	%REC	1	6/26/2014 10:46:49 Ai	M 13911
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	2.9	mg/Kg	1	6/26/2014 10:07:55 AT	И R19524
Surr: BFB	96.9	80-120	%REC	1	6/26/2014 10:07:55 AT	M R19524
EPA METHOD 8021B: VOLATILES	•				Analys	t: NSB
Benzene	ND	0.029	mg/Kg	1	6/26/2014 10:07:55 AI	M R19524
Toluene	ND	0.029	mg/Kg	1	6/26/2014 10:07:55 Af	/I R19524
Ethylbenzene	ND	0.029	mg/Kg	1	6/26/2014 10:07:55 Af	/ R19524
Xylenes, Total	ND	0.059	mg/Kg	1	6/26/2014 10:07:55 Af	A R19524
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/26/2014 10:07:55 AM	/I R19524
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	49	30	mg/Kg	20	6/26/2014 10:14:22 AM	A 13914

Matrix: SOIL

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

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

Page 3 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1406B91

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: TH-2 @ 4'

Project: C

CoP Albino Canyon 101

Collection Date: 6/24/2014 4:50:00 PM

Lab ID: 1

1406B91-004

Matrix: SOIL

Received Date: 6/26/2014 8:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: JRR
Chloride	ND	30	mg/Kg	20	6/26/2014 10:26:46	AM 13914

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

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

Page 4 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B91

30-Jun-14

Client:

Animas Environmental

Project:

CoP Albino Canyon 101

Sample ID MB-13914

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 13914

RunNo: 19547

Prep Date: 6/26/2014

Analysis Date: 6/26/2014

SeqNo: 566119

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Chloride

ND 1.5

Sample ID LCS-13914

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: ' LCSS Prep Date: 6/26/2014

Batch ID: 13914 Analysis Date: 6/26/2014 RunNo: 19547

SeqNo: 566120

Units: mg/Kg

Analyte

Result

%REC LowLimit HighLimit %RPD

1.5

Qual

Chloride

PQL

93.8

110

14

SPK value SPK Ref Val 15.00

RPDLimit

Qualifiers:

Е

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

J Analyte detected below quantitation limits

RSD is greater than RSDlimit О RPD outside accepted recovery limits R

Value above quantitation range

Analyte detected in the associated Method Blank В

RL

Η Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND

Reporting Detection Limit

Sample pH greater than 2.

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B91 30-Jun-14

Client: Project: Animas Environmental CoP Albino Canyon 101

Sample ID MB-13911	SampT	ype: ME	BLK	Test	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch	Batch ID: 13911 RunNo: 19522											
Prep Date: 6/26/2014	Analysis D	ate: 6/	26/2014	SeqNo: 564983			Units: mg/k	(g					
Analyte	Result	PQL_	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	10								-			
Surr. DNOP	7.1		10.00		70.6	57.9	140						

Sample ID LCS-13911	SampT	ype: LC	s	Tes	TestCode: EPA Method 8015D: Diesel Range Organics									
Client ID: LCSS	Batch	i ID: 13	911	F	RunNo: 1	9522								
Prep Date: 6/26/2014	Analysis D	nalysis Date: 6/26/2014			SeqNo: 564984			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	68.6	130	•						
Surr: DNOP	3.4		5.000		67.1	57.9	140							

Sample ID MB-13913	SampType: MBLK	TestCode: EPA Method	de: EPA Method 8015D: Diesel Range Organics									
Client ID: PBS	Batch ID: 13913	RunNo: 19522	RunNo: 19522									
Prep Date: 6/26/2014	Analysis Date: 6/26/2014	SeqNo: 565609	Units: %REC									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual								
Surr: DNOP	6.6 10.00	66.4 57.9	140									

Sample ID LCS-13913	SampT	уре: LC	s	Tes	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch	913	F	RunNo: 1	9522							
Prep Date: 6/26/2014	Analysis Date: 6/26/2014			S	SeqNo: 5	65610	Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	3.1		5.000		61.7	57.9	140					

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.

RL Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406B91

30-Jun-14

Client: Animas Environmental
Project: CoP Albino Canyon 101

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: R19524 RunNo: 19524 Prep Date: Analysis Date: 6/26/2014 SeqNo: 565533 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND Gasoline Range Organics (GRO) 5.0 Surr: BFB 940 1000 93.6 80 120

Sample ID 2.5UG GRO LCS TestCode: EPA Method 8015D: Gasoline Range SampType: LCS Client ID: LCSS Batch ID: R19524 RunNo: 19524 Prep Date: Analysis Date: 6/26/2014 SeqNo: 565534 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC HighLimit Analyte LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 104 71.7 134 Surr: BFB 940 1000 94.2 80 120

Sample ID 1406B91-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Batch ID: R19524 Client ID: TH-1 @ 0.5' RunNo: 19524 Analysis Date: 6/26/2014 Prep Date: SeqNo: 565536 Units: mg/Kg SPK value SPK Ref Val %REC Analyte Result **PQL** LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 14 2.8 14.00 99.2 71.8 132 600 560.2 108 Surr: BFB 80 120

Sample ID 1406B91-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: TH-1 @ 0.5' Batch ID: R19524 RunNo: 19524 Analysis Date: 6/26/2014 SeqNo: 565537 Prep Date: Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result **PQL** LowLimit Qual Gasoline Range Organics (GRO) 13 2.8 14.00 0 94.0 71.8 132 5.38 20 550 560.2 98.6 80 120 0 0 Surr: BFB

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.

RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B91

30-Jun-14

Client:	Animas Environmental
Project:	CoP Albino Canyon 10

Sample ID 5ML RB	SampT	уре: МЕ	BLK	Tes							
Client ID: PBS	Batch	Batch ID: R19524			RunNo: 1	9524					
Prep Date:	Analysis D	Analysis Date: 6/26/2014			SeqNo: 5	65547	Units: mg/k	ίg			
Analyte	Result PQL SPK value SF		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 LC	CS Samp1	ype: LC	S	Tes	8021B: Volat	tiles							
Client ID: LCSS	Batcl	ch ID: R19524 RunNo: 19524											
Prep Date:	Analysis D	Date: 6/	26/2014	SeqNo: 565548			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	110	80	120						
Toluene	1.1	0.050	1.000	0	109	80	120						
Ethylbenzene	1.1	0.050	1.000	0	108	80	120						
Xylenes, Total	3.3	0.10	3.000	0	110	80	120						
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120						

Sample ID 1406B91-003AN	IS Samp	Туре: М	S	Tes	8021B: Vola	tiles								
Client ID: TH-2 @ 0.5'	Batc	Batch ID: R19524 RunNo: 19524												
Prep Date:	Analysis [Analysis Date: 6/26/2014			SeqNo: 565555			ng/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.55	0.029	0.5886	0	94.0	77.4	142							
Toluene	0.54	0.029	0.5886	0	92.6	· 77	132							
Ethylbenzene	0.55	0.029	0.5886	0	94.1	77.6	134							
Xylenes, Total	1.8	0.059	1.766	0	100	77.4	132							
Surr: 4-Bromofluorobenzene	0.64		0.5886		108	80	120							

Sample ID 1406B91-003AN	ISD SampT	туре: М S	SD	Tes	8021B: Vola	tiles								
Client ID: TH-2 @ 0.5'	Batcl	h ID: R1	9524	F	RunNo: 1	9524								
Prep Date:	Analysis D	Analysis Date: 6/26/2014 SeqNo: 565556						Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.55	0.029	0.5886	0	93.7	77.4	142	0.277	20					
Toluene	0.54	0.029	0.5886	0	91.5	77	132	1.12	20					
Ethylbenzene	0.54	0.029	0.5886	0	92.2	77.6	134	2.10	20					
Xylenes, Total	1.7	0.059	1.766	0 97.9 77.4			132	2.19	20					
Surr: 4-Bromofluorobenzene	0.64		0.5886		109	80	120	0	0					

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.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1406B91 RcptNo: 1 Received by/date: ane Show Logged By: 6/26/2014 8:10:00 AM Completed By: Anne Thorne 6/26/2014 70 Reviewed By: 06/26/14 Chain of Custody No 🔲 Yes 🗌 Not Present 1 Custody seals intact on sample bottles? No 🗌 Yes 🗹 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗆 NA 🗀 4. Was an attempt made to cool the samples? Yes 🗹 5. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🗸 No 🗔 6. Sample(s) in proper container(s)? Yes 🗸 Yes 🗸 No 🗔 7. Sufficient sample volume for indicated test(s)? Yes V 8. Are samples (except VOA and ONG) properly preserved? No No 🗹 NA 🗌 9. Was preservative added to bottles? Yes · Yes 🔽 No 🗌 No VOA Vials 10. VOA vials have zero headspace? No 🗹 Yes □ 11. Were any sample containers received broken? # of preserved bottles checked No 🔲 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🔲 Yes 🗹 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🔽 14 Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes 🔽 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🔲 16. Was client notified of all discrepancies with this order? No 🔲 NA 🗹 Date Person Notified: By Whom: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Seal Intact | Seal No Seal Date Temp °C Condition Cooler No Signed By 1.6 Good Yes

Client: A Client				i urn-Arouna	Time:			١,		. 1	L	IAI	1 1	FI	V	TR	10	MIN	4FI	NT	ΔI	
Client:	\sim		ivon mental	Standard Project Name	Rush	Same	day		**************************************												RY	r
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Date	Time	Matrix	Sample Request ID	, ypo and n	Preservative Type	Y THE	AENO UBAI	BTEX + TEE	BTEX + MTBE	TPH 8015B(GROYDRO) MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	300.0Chlorides			Air Bubbles (Y or N)
3-24-14	1615	Soil	TH-100.5'	Mechan	Meet		-01	X		X									X			Τ
6-24-14		Soil	TH-1041	1-402 glass			-001												X			T
-24-14		Soil	14-2.00.5	histri- 1-40 years	Must Cold		003	X		X									X			T
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	necessary	samples sub	mitted to Hall Environmental may be sub	contracted to other ac	ccredited laboratori	es. This serve	es as notice of thi	s possi	ibility.	Any s	ub-con	tracte	d data	will be	e clear	rly nota	ated or	n the a	ınalytica	al report	t.	***