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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Burlington Resources Oil & Gas Company	Contact **Lindsay Dumas**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505) 599-4089
Facility Name: San Juan 28-6 152M	Facility Type: Gas

Surface Owner: BLM	Mineral Owner: BLM (NM-013657)	API No. 30-039-29349

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	**24**	**28N**	**06W**	**240'**	**FSL**	**2335'**	**FEL**	**Rio Arriba**

Latitude 36.64037 Longitude -107.41772

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 20 bbls	Volume Recovered 20 bbls
Source of Release Overflow of pit	Date and Hour of Occurrence **6/11/2015**	Date and Hour of Discovery **6/11/2015**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse	

OIL CONS. DIV DIST. 3
NOV 16 2015

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A pit overflowed causing 20 bbls of produced water to flow into the cribbing of the pit. There was no loss of pit integrity.

Describe Area Affected and Cleanup Action Taken.*
Based on final field sampling and laboratory analytical results of the release assessment at the San Juan 28-6 152M, benzene total BTEX, TPH, and chloride concentrations were below applicable NMOCD action levels. No further work is recommended.

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: Lindsay Dumas	OIL CONSERVATION DIVISION
Printed Name: **Lindsay Dumas**	Approved by Environmental Specialist:
Title: **Field Environmental Specialist**	Approval Date: 12/24/2015 Expiration Date:
E-mail Address: **Lindsay.Dumas**@conocophillips.com	Conditions of Approval: — Attached ☐
Date: 11/9/2015 Phone: (505) 599-4089	

* Attach Additional Sheets If Necessary

NCS1518954239

(19)

August 24, 2015

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
(505) 599-4089

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

RE: Release Assessment Report
San Juan 28-6 #152M
Rio Arriba County, New Mexico

Dear Ms. Dumas:

On June 24, 2015, Animas Environmental Services, LLC (AES) completed a release assessment at the ConocoPhillips (COPC) San Juan 28-6 #152M, located in Rio Arriba County, New Mexico. The release consisted of approximately 20 barrels (bbls) of produced water due to an overflow of the below grade tank (BGT) on location.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-6 #152M
Location – SW¼ SE¼, Section 24, T28N, R6W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.64017 and W107.41752, respectively
Release Location Latitude/Longitude – N36.64037 and W107.41772, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, June 2015

1.2 NMOCD Ranking

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:

- **Depth to Groundwater:** A C-144 form dated July 2005 for the 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 unnamed wash approximately 400 feet east of the BGT flows into Fourmile Canyon. (10 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of COPC on June 16, 2015, and on June 24, 2015, Dylan Davis and Emilee Skyles of AES completed the release assessment field work. The assessment included collection and field sampling of a total of four soil samples from two discrete surface locations and two soil borings in and around the release area. Soil borings samples were collected at 5.5 feet bgs. Sample locations are presented on Figure 3.

2.0 Soil Sampling

Two soil samples from two soil borings (SB-1 and SB-2) and two surface samples (S-1 and S-2) were collected during the assessment. All soil samples were field screened for chloride concentrations and total petroleum hydrocarbons (TPH).

2.1 Field Sampling

2.1.1 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*.

2.1.2 Chlorides

All soil samples were field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The 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 boring samples SB-1 and SB-2 were laboratory analyzed for the following:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

On June 24, 2015, release assessment field screening results for field TPH concentrations ranged from less than 20.0 mg/kg in SB-1 and S-1 up to 30.1 mg/kg in S-2. Chloride concentrations ranged from 100 mg/kg in S-1 and S-2 up to 120 mg/kg in SB-1 and SB-2. Results are included below in Table 1 and on Figure 3. The AES Field Sampling Report is attached.

Table 1. Soil Field TPH Results
San Juan 28-6 #152M Release Assessment, June 2015

Sample ID	Date Sampled	Sample Depth (ft bgs)	TPH 418.1 (mg/kg)	Chlorides (mg/kg)
*NMOCD Action Level**			*1,000*	*NE*
SB-1	6/24/15	5.5	<20.0	100
SB-2	6/24/15	5.5	24.0	100
S-1	6/24/15	Surface	<20.0	120
S-2	6/24/15	Surface	30.1	120

NE – not established
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

Laboratory analyses for SB-1 and SB-2 were used to confirm field sampling results of the release assessment. Benzene, total BTEX concentrations, and TPH concentrations as GRO/DRO were reported below laboratory detection limits in each sample. Chloride concentrations ranged from 40 mg/kg in SB-2 up to 51 mg/kg in SB-1. Results are presented in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
San Juan 28-6 #152M Release Assessment, June 2015

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	Chloride (mg/kg)
*NMOCD Action Level**			*10*	*50*	*1,000*		*NE*
SB-1	6/24/15	5.5	<0.50	<0.249	<5.0	<9.6	51
SB-2	6/24/15	5.5	<0.47	<0.236	<4.7	<9.9	40

NE - not established
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On June 24, 2015, AES conducted a release assessment of petroleum contaminated soils associated with a release of produced water at the San Juan 28-6 #152M. 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.

Release assessment field sampling results below the NMOCD action level of 100 mg/kg TPH were reported in all samples collected. The highest field TPH concentration was reported in S-2 with 30.1 mg/kg.

Laboratory analyses for SB-1 and SB-2 were used to confirm field sampling results. 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 below the NMOCD action level of 100 mg/kg.

Based on final field sampling and laboratory analytical results of the release assessment at the San Juan 28-6 #152M, benzene, total BTEX, TPH, and chloride 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,

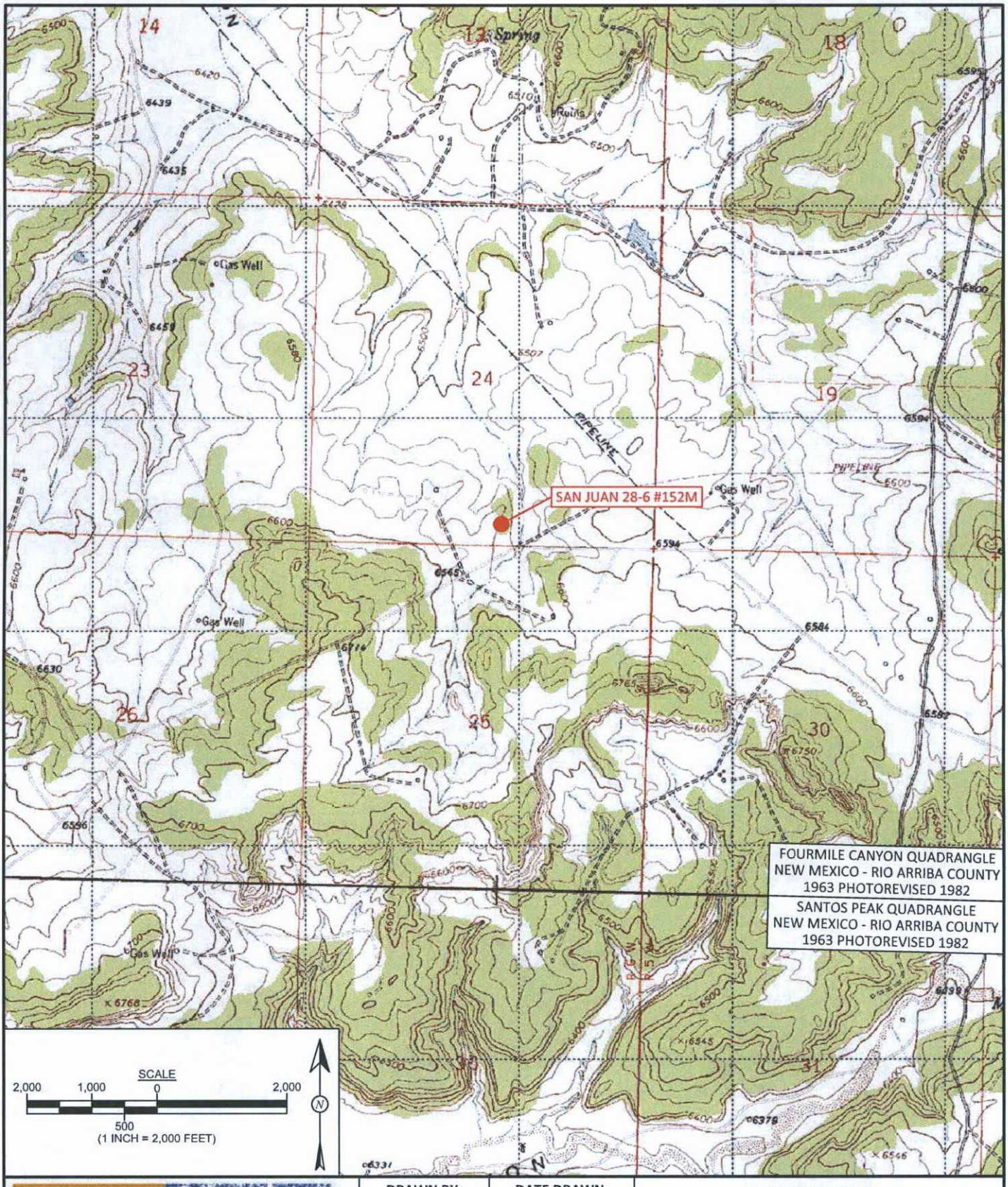
Emilee Skyles
Staff Geologist

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, June 2015
Figure 3. Release Assessment Sample Locations and Results, June 2015
AES Field Sampling Report 062415
Hall Laboratory Analytical Report 1506C93

R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2015 Projects\ConocoPhillips\SJ 28-6 152M\COPC San Juan 28-6 #152M Release Assessment Report 082415 EM.docx



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** July 9, 2015
REVISIONS BY: C. Lameman	**DATE REVISED:** July 9, 2015
CHECKED BY: E. Skyles	**DATE CHECKED:** July 9, 2015
APPROVED BY: E. McNally	**DATE APPROVED:** July 9, 2015

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 28-6 #152M
SW¼ SE¼, SECTION 24, T28N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.64017, W107.41752

Animas Environmental Services, LLC

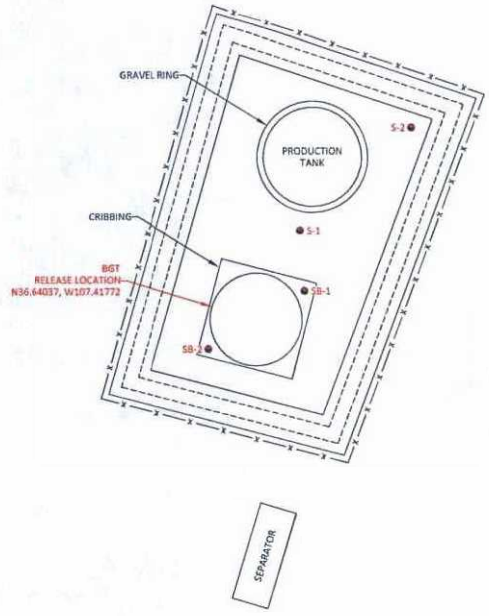
DRAWN BY: C. Lameman	**DATE DRAWN:** July 9, 2015
REVISIONS BY: C. Lameman	**DATE REVISED:** July 9, 2015
CHECKED BY: E. Skyles	**DATE CHECKED:** July 9, 2015
APPROVED BY: E. McNally	**DATE APPROVED:** July 9, 2015

FIGURE 2

AERIAL SITE MAP
ConocoPhillips
SAN JUAN 28-6 #152M
SW¼ SE¼, SECTION 24, T28N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.64017, W107.41752

FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS
JUNE 2015
ConocoPhillips
SAN JUAN 28-6 #152M
SW¼ SE¼, SECTION 24, T28N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.64017, W107.41752



Field Sampling Results					
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD ACTION LEVEL			100	1,000	250
S-1	6/24/15	0.5	NA	<20.0	120
S-2	6/24/15	0.5	NA	30.1	120
SB-1	6/24/15	5.5	NA	<20.0	100
SB-2	6/24/15	5.5	NA	24.0	100
NA - NOT ANALYZED					

Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chloride (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000		NE
SB-1	6/24/15	5.5	<0.050	<0.249	<5.0	<9.6	51
SB-2	6/24/15	5.5	<0.047	<0.236	<4.7	<9.9	40
ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B, 8015D, AND 300.0.							

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: July 9, 2015
REVISIONS BY: C. Lameman	DATE REVISED: July 9, 2015
CHECKED BY: E. Skyles	DATE CHECKED: July 9, 2015
APPROVED BY: E. McNally	DATE APPROVED: July 9, 2015

LEGEND

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

SCALE
15 5 0 15
10
(1 INCH = 15 FEET)

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: San Juan 28-6 #152M

Date: 6/24/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field Chloride (mg/kg)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	6/24/2015	9:10	NA	120	13.3	10:00	20.0	0	EMS
S-2	6/24/2015	911	NA	120	30.1	10:04	20.0	0	EMS
SB-1	6/24/2015	10:27	NA	100	16.1	16:20	20.0	0	EMS
SB-2	6/24/2015	11:04	NA	100	24.0	16:24	20.0	0	EMS

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit
**Field TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Emily Sy

Report Finalized: 6/24/15

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 06, 2015

Emilee Skyles
Animas Environmental
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX

RE: CoP San Juan 28-6 152M OrderNo.: 1506C93

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/26/2015 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 qualifers 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1506C93**
Date Reported: **7/6/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP San Juan 28-6 152M
Lab ID: 1506C93-001 **Matrix:** SOIL

Client Sample ID: SB-1 @ 5.5'
Collection Date: 6/24/2015 10:27:00 AM
Received Date: 6/26/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	51	30		mg/Kg	20	7/2/2015 2:30:09 AM	20066
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/1/2015 6:06:39 PM	19977
Surr: DNOP	101	57.9-140		%REC	1	7/1/2015 6:06:39 PM	19977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/30/2015 1:31:59 PM	20005
Surr: BFB	88.5	75.4-113		%REC	1	6/30/2015 1:31:59 PM	20005
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.050		mg/Kg	1	6/30/2015 1:31:59 PM	20005
Toluene	ND	0.050		mg/Kg	1	6/30/2015 1:31:59 PM	20005
Ethylbenzene	ND	0.050		mg/Kg	1	6/30/2015 1:31:59 PM	20005
Xylenes, Total	ND	0.099		mg/Kg	1	6/30/2015 1:31:59 PM	20005
Surr: 4-Bromofluorobenzene	93.7	80-120		%REC	1	6/30/2015 1:31:59 PM	20005

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 Not In Range
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
Project: CoP San Juan 28-6 152M
Lab ID: 1506C93-002 **Matrix:** SOIL

Client Sample ID: SB-2 @ 5.5'
Collection Date: 6/24/2015 11:04:00 AM
Received Date: 6/26/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	40	30		mg/Kg	20	7/2/2015 2:42:34 AM	20066
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/1/2015 4:15:27 AM	19977
Surr: DNOP	93.5	57.9-140		%REC	1	7/1/2015 4:15:27 AM	19977
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/30/2015 2:00:45 PM	20005
Surr: BFB	86.7	75.4-113		%REC	1	6/30/2015 2:00:45 PM	20005
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.047		mg/Kg	1	6/30/2015 2:00:45 PM	20005
Toluene	ND	0.047		mg/Kg	1	6/30/2015 2:00:45 PM	20005
Ethylbenzene	ND	0.047		mg/Kg	1	6/30/2015 2:00:45 PM	20005
Xylenes, Total	ND	0.095		mg/Kg	1	6/30/2015 2:00:45 PM	20005
Surr: 4-Bromofluorobenzene	90.8	80-120		%REC	1	6/30/2015 2:00:45 PM	20005

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 Not In Range
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#: **1506C93**

06-Jul-15

Client: Animas Environmental

Project: CoP San Juan 28-6 152M

Sample ID **MB-20066**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **20066**	RunNo: **27235**
Prep Date: **7/1/2015**	Analysis Date: **7/2/2015**	SeqNo: **815857** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-20066**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **20066**	RunNo: **27235**
Prep Date: **7/1/2015**	Analysis Date: **7/2/2015**	SeqNo: **815858** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	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 Not In Range
RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506C93**

06-Jul-15

Client: Animas Environmental

Project: CoP San Juan 28-6 152M

Sample ID **MB-19977**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **19977**	RunNo: **27182**
Prep Date: **6/26/2015**	Analysis Date: **6/30/2015**	SeqNo: **815290** 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	9.2		10.00		92.0	57.9	140			

Sample ID **LCS-19977**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **19977**	RunNo: **27182**
Prep Date: **6/26/2015**	Analysis Date: **6/30/2015**	SeqNo: **815306** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.2	57.4	139			
Surr: DNOP	4.5		5.000		89.1	57.9	140			

Sample ID **MB-19990**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **19990**	RunNo: **27182**
Prep Date: **6/29/2015**	Analysis Date: **7/1/2015**	SeqNo: **815505** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.1	57.9	140			

Sample ID **MB-20028**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **20028**	RunNo: **27182**
Prep Date: **6/30/2015**	Analysis Date: **7/2/2015**	SeqNo: **816327** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	57.9	140			

Sample ID **LCS-20028**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **20028**	RunNo: **27182**
Prep Date: **6/30/2015**	Analysis Date: **7/2/2015**	SeqNo: **816328** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.1		5.000		121	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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506C93**

06-Jul-15

Client: Animas Environmental

Project: CoP San Juan 28-6 152M

Sample ID **MB-20005**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **20005**	RunNo: **27195**
Prep Date: **6/29/2015**	Analysis Date: **6/30/2015**	SeqNo: **814609** 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	870		1000		87.1	75.4	113			

Sample ID **LCS-20005**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **20005**	RunNo: **27195**
Prep Date: **6/29/2015**	Analysis Date: **6/30/2015**	SeqNo: **814610** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	64	130			
Surr: BFB	920		1000		91.5	75.4	113			

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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506C93**

06-Jul-15

Client: Animas Environmental

Project: CoP San Juan 28-6 152M

Sample ID **MB-20005**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **20005**	RunNo: **27195**
Prep Date: **6/29/2015**	Analysis Date: **6/30/2015**	SeqNo: **814628** 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	0.91		1.000		91.0	80	120			

Sample ID **LCS-20005**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **20005**	RunNo: **27195**
Prep Date: **6/29/2015**	Analysis Date: **6/30/2015**	SeqNo: **814629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.3	76.6	128			
Toluene	0.98	0.050	1.000	0	98.1	75	124			
Ethylbenzene	1.0	0.050	1.000	0	102	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	101	78.8	124			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	80	120			

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 Not In Range
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental | Work Order Number: 1506C93 | RcptNo: 1

Received by/date: LM 06/26/15

Logged By: Anne Thorne 6/26/2015 7:00:00 AM Anne Thorne

Completed By: Anne Thorne 6/26/2015 Anne Thorne

Reviewed By: JA 06/29/15

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	2.5	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address: 604 W Pinon St.
Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name:
CoP San Juan 28-6 152M

Project #:

Project Manager:
E. Skyles

Sampler: E. Skyles/D.Davis
On Ice: ☑ Yes ☐ No
Sample Temperature: 2.5

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1506C93	BTEX - 8021B	TPH - EPA 8015B (GRO/DRO)	Chlorides - 300.0	Air Bubbles (Y or N)
6/24/15	10:27	Soil	SB-1 @ 5.5'	1 - 4 oz.	cool	001	X	X	X	
6/24/15	11:04	Soil	SB-2 @ 5.5'	1 - 4 oz.	cool	002	X	X	X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/25/15	1540	Dyla Davis	Chad Walker	6/25/15	1540
6/26/15	1834	Mistie Walker		06/26/15	0700

Remarks: Bill to Conoco Phillips
WO# 20862796
Supervisor: Bobby Spearman
Ordered by: Lindsay Dumas

USERID: BRADLRY
Area: 24

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.