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 **ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 258-1607**
Facility Name: **State Com R #14**	Facility Type: **Gas Well**

Surface Owner **State**	Mineral Owner **State (E-11479)**	API No. **3004508912**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	**36**	**30N**	**09W**	**940**	**South**	**990**	**West**	**San Juan**

Latitude 36.76329 Longitude -107. 73658

NATURE OF RELEASE

Type of Release **Historic Contamination**	Volume of Release **Unknown**	Volume Recovered **0**
Source of Release **Discharge Line**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **01/31/17 @ 9:00 a.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☒ Not Required	If YES, To Whom? **OCD and BLM via email notification**	
By Whom? **N/A**	Date and Hour **February 2, 2017 @ 2:40 p.m.**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

OIL CONS. DIV DIST. 3

JUL 20 2017

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

Describe Cause of Problem and Remedial Action Taken.*
During Enterprise's remediation of their "Florance 21A" line leak on the COPC location **State Com R 14**, an abandoned COPC discharge line with evidence of a past leak was discovered. COPC was notified by Enterprise Environmental on Tuesday, January 31st. As more information was gathered the following day, it was evident that the contamination had the potential to be large.

Describe Area Affected and Cleanup Action Taken.*
Third-party environmental contractor conducted release assessment on 2-17-17 and estimates soil remediation to be approximately 50 ft x 75 ft x 2-6ft (sandstone). COPC will schedule the remediation. Site Risk Rank: 10. The excavation was 76' x 92' x4-7' in depth and approximately 1500 yds of soil was transported to IEI land farm. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Lisa Hunter**	
Title: **Field Environmental Specialist**	Approval Date: 7/31/2017 Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval: — Attached ☐
Date: **July 17, 2017** Phone: **(505) 258-1607**	

* Attach Additional Sheets If Necessary

NVF1703748805

July 17, 2017

Lisa Hunter
ConocoPhillips
San Juan Business Unit
(505) 326-9786

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

RE: Release Assessment and Final Excavation Report
State Com R 14 CDP
San Juan County, New Mexico

Dear Ms. Hunter:

On February 17, June 27, and July 5, 2017, Animas Environmental Services, LLC (AES) completed a release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COP) State Com R 14 CDP, located in San Juan County, New Mexico. The initial release assessment was completed on February 17, 2017, and the final excavation was completed by COP contractors while AES was on location on June 27, 2017.

1.0 Site Information

1.1 Location

Site Name – State Com R 14 CDP
Legal Description – SW¼ SW¼, Section 36, T30N, R9W, San Juan County, New Mexico
Well Latitude/Longitude – N36.76325 and W107.73741, respectively
Release Latitude/Longitude – N36.76327 and W107.73767, respectively
Land Jurisdiction – State of New Mexico
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, February 2017

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:** The location is approximately 155 feet higher than the Animas River, which is located 930 feet to the northwest. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. Domestic water well SJ 02298 is located approximately 1,550 feet northwest of the location. (0 points)
- **Distance to Surface Water Body:** The Animas River is located 930 feet to the northwest. (10 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of COP on February 1, 2017, and on February 17, 2017, Corwin Lameman and Sam Glasses of AES completed the release assessment field work. The assessment included collection and field sampling of 19 soil samples from 13 soil borings (SB-1 through SB-13). Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On June 27 and July 5, 2017, AES returned to the location to collect confirmation soil samples of the excavation extents. The field sampling activities included collection of 10 confirmation soil samples (SC-1 through SC-10) from the walls and base of the excavation. The area of the final excavation measured approximately 76 feet by 92 feet by 4 to 7 feet in depth. Note that the depth of the excavation was limited due to a confining sandstone unit around 4 to 7 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for volatile organic compound (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

Soil samples were also analyzed in the field for total petroleum hydrocarbons (TPH) 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' *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples SC-1 through SC-10 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH as gasoline range, diesel range, and motor oil range organics (GRO/DRO/MRO) per USEPA Method 8015.

2.3 Field and Laboratory Analytical Results

Field sampling results and laboratory analytical results are summarized in Tables 1 and 2, respectively, and on Figures 3 and 4. The AES Field Sampling Reports and laboratory analytical reports are attached.

Table 1. Soil Field VOCs and TPH Results
State Com R 14 CDP Release Assessment and Final Excavation
February and June 2017

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)
		*NMOCD Action Level**	*100*	*1,000*
SB-1	2/17/17	2	**101**	74.3
		4.25	**163**	103
SB-2	2/17/17	0.5	**1,136**	180
		5	**4,286**	**2,320**
SB-3	2/17/17	0.75	**222**	NA
		4	**4,517**	**9,020**
SB-4	2/17/17	0.75	**335**	NA

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)
		*NMOCD Action Level**	*100*	*1,000*
SB-5	2/17/17	5	**5,223**	533
		1	**420**	NA
		4.25	**6,284**	**3,200**
SB-6	2/17/17	1	**227**	NA
		3	**374**	234
SB-7	2/17/17	4	9.6	45.7
SB-8	2/17/17	2.25	94.7	38.5
SB-9	2/17/17	4.25	15.1	48.5
SB-10	2/17/17	5	1.1	42.8
SB-11	2/17/17	5	0.0	37.1
SB-12	2/17/17	4	45.8	437
SB-13	2/17/17	2	11.8	31.3
SC-1	6/27/17	0 to 4	12.0	88.5
SC-2	6/27/17	0 to 7	24.3	69.6
SC-3	6/27/17	0 to 7	**851**	71.0
SC-4	6/27/17	0 to 7	50.6	279
SC-5	6/27/17	0 to 4	**907**	339
SC-6	6/27/17	0 to 4	**1,919**	714
SC-7	6/27/17	0 to 4	**2,031**	389
SC-8	6/27/17	0 to 7	**4,594**	213
SC-9	6/27/17	4 to 7	**830**	334
SC-10	6/27/17	4 to 7	**2,757**	445

*Action level determined by *NMAC 19.15.17.13*
NA – not analyzed

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH
State Com R 14 CDP Final Excavation
June and July 2017

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)
	*NMOCD Action Level**		*10*	*50*		*1,000*	
SC-1	6/27/17	0 to 4	<0.018	<0.159	<3.5	<10	<50
SC-2	6/27/17	0 to 7	<0.016	<0.145	<3.2	<9.2	<46
SC-3	6/27/17	0 to 7	0.026	2.51	45	16	<48
SC-4	6/27/17	0 to 7	<0.016	1.41	26	26	<47
SC-5	6/27/17	0 to 4	<0.017	0.088	20	77	200
SC-6	7/5/17	0 to 4	<0.017	0.17	16	160	190
SC-7	7/5/17	0 to 4	<0.016	<0.148	<3.3	47	250
SC-8	6/27/17	0 to 7	<0.074	7.4	190	53	<46
SC-9	6/27/17	4 to 7	<0.016	0.578	18	26	97
SC-10	6/27/17	4 to 7	<0.015	1.12	38	63	170

*Action level determined by *NMAC 19.15.17.13*

3.0 Conclusions and Recommendations

3.1 Release Assessment

On February 17, 2017, AES conducted an initial assessment of petroleum contaminated soils associated with an abandoned and corroded pipeline at the State Com R 14 CDP. 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 above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in SB-1 through SB-6. The highest field VOC concentration was reported in SB-5, with a concentration of 6,284 ppm, and the greatest field TPH concentration was reported in SB-3, at 9,020 mg/kg TPH. Excavation of the release area was recommended.

3.2 Excavation Clearance

On July 5, 2017, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed field VOC concentrations exceeded the applicable NMOCD action level of 100 ppm in SC-3 and SC-5 through SC-10. In contrast, field TPH concentrations were below the applicable NMOCD action level of 1,000 mg/kg for all samples. Additionally, laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO/MRO) in all samples as below NMOCD action levels.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the State Com R 14 CDP, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

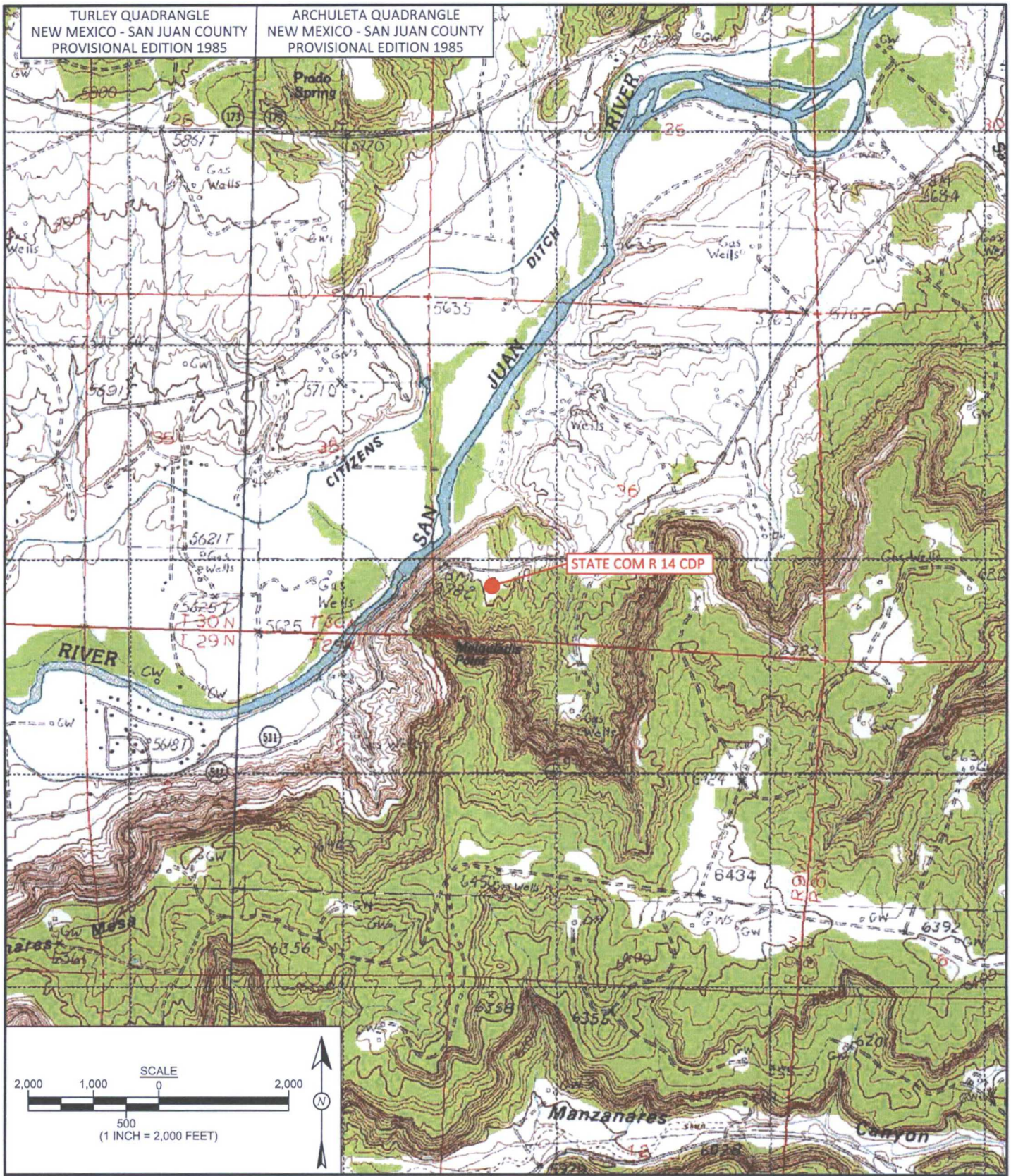
David J. Reese
Environmental Scientist

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, February 2017
Figure 3. Release Assessment Sample Locations and Results, February 2017
Figure 4. Final Excavation Sample Locations and Results, June and July 2017
AES Field Sampling Reports 021717, 062717
Hall Laboratory Analytical Reports 1706E67, 1706E69, 1707252

C:\Users\emcnally\Dropbox (Animas Environmental)\0000 aes server client projects dropbox\2017 Client Projects\ConocoPhillips\State Com R 14 CDP\State Com R 14 CDP Release and Final Excavation Report 071717.docx



animas environmental services Farmington, NM • Durango, CO animasenvironmental.com	**DRAWN BY:** C. Lameman	**DATE DRAWN:** February 21, 2017	**FIGURE 1**
	REVISIONS BY: C. Lameman	**DATE REVISED:** July 10, 2017	**TOPOGRAPHIC SITE LOCATION MAP** ConocoPhillips STATE COM R 14 CDP SW¼ SW¼, SECTION 36, T30N, R9W SAN JUAN COUNTY, NEW MEXICO N36.76325, W107.73741
	CHECKED BY: E. McNally	**DATE CHECKED:** July 10, 2017	
	APPROVED BY: E. McNally	**DATE APPROVED:** July 10, 2017	

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY: C. Lameman	**DATE DRAWN:** February 21, 2017	**FIGURE 2**
REVISIONS BY: C. Lameman	**DATE REVISED:** July 10, 2017	**AERIAL SITE MAP FEBRUARY 2017**
CHECKED BY: E. McNally	**DATE CHECKED:** July 10, 2017	ConocoPhillips STATE COM R 14 CDP SW¼ SW¼, SECTION 36, T30N, R9W SAN JUAN COUNTY, NEW MEXICO N36.76325, W107.73741
APPROVED BY: E. McNally	**DATE APPROVED:** July 10, 2017	

Field Sampling Results				
Sample ID	Date	Depth (ft)	PID-OVM (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SB-1	2/17/17	2	101	74.3
		4.25	163	103
SB-2	2/17/17	0.5	1,136	180
		5	4,286	2,320
SB-3	2/17/17	0.75	222	NA
		4	4,517	9,020
SB-4	2/17/17	0.75	335	NA
		5	5,223	533
SB-5	2/17/17	1.0	420	NA
		4.25	6,284	3,200
SB-6	2/17/17	1.0	227	NA
		3	374	234
SB-7	2/17/17	4	9.6	45.7
SB-8	2/17/17	2.25	94.7	38.5
SB-9	2/17/17	4.25	15.1	48.5
SB-10	2/17/17	5	1.1	42.8
SB-11	2/17/17	5	0.0	37.1
SB-12	2/17/17	4	45.8	437
SB-13	2/17/17	2	11.8	31.3
NA - NOT ANALYZED				

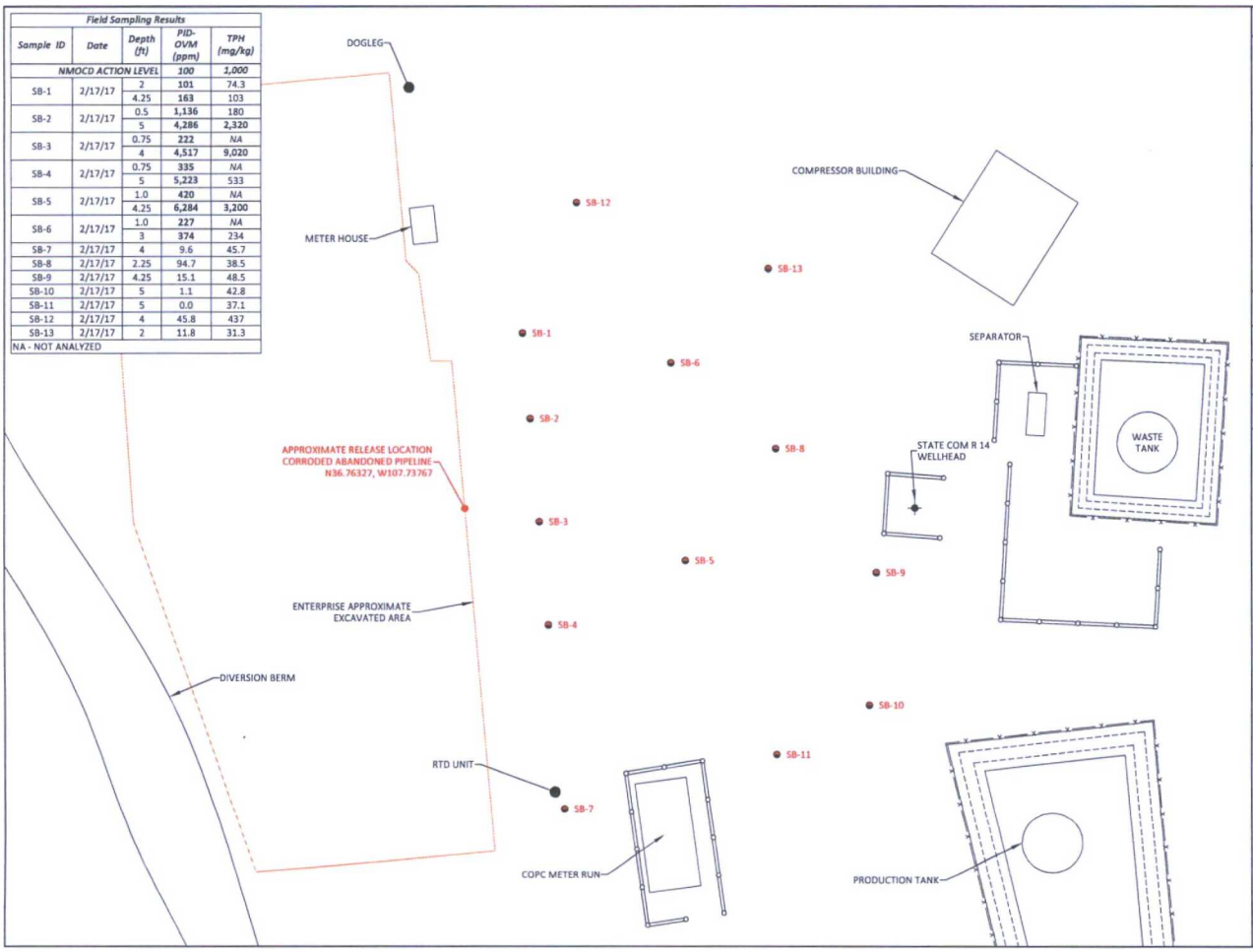


FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS
FEBRUARY 2017
ConocoPhillips
STATE COM R 14 CDP
SW¼ SW¼, SECTION 36, T30N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.76325, W107.73741

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: February 17, 2017
REVISIONS BY: S. Glasses	DATE REVISED: July 11, 2017
CHECKED BY: E. McNally	DATE CHECKED: July 11, 2017
APPROVED BY: E. McNally	DATE APPROVED: July 11, 2017

LEGEND
- SOIL BORING LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

N

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

Field Sampling Results

Sample ID	Date	Depth (ft)	PID-OVM (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-1	6/27/17	0 to 4	12.0	88.5
SC-2	6/27/17	0 to 7	24.3	69.6
SC-3	6/27/17	0 to 7	851	71.0
SC-4	6/27/17	0 to 7	50.6	279
SC-5	6/27/17	0 to 4	907	339
SC-6	6/27/17	0 to 4	1,919	714
SC-7	6/27/17	0 to 4	2,031	389
SC-8	6/27/17	0 to 7	4,594	213
SC-9	6/27/17	4 to 7	830	334
SC-10	6/27/17	4 to 7	2,757	445

Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000		
SC-1	6/27/17	0 to 4	<0.018	<0.159	<3.5	<10	<50
SC-2	6/27/17	0 to 7	<0.016	<0.145	<3.2	<9.2	<46
SC-3	6/27/17	0 to 7	0.026	2.51	45	16	<48
SC-4	6/27/17	0 to 7	<0.016	1.41	26	26	<47
SC-5	6/27/17	0 to 4	<0.017	0.088	20	77	200
SC-6	7/5/17	0 to 4	<0.017	0.17	16	160	190
SC-7	7/5/17	0 to 4	<0.016	<0.148	<3.3	47	250
SC-8	6/27/17	0 to 7	<0.074	7.4	190	53	<46
SC-9	6/27/17	4 to 7	<0.016	0.578	18	26	97
SC-10	6/27/17	4 to 7	<0.015	1.12	38	63	170

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D.

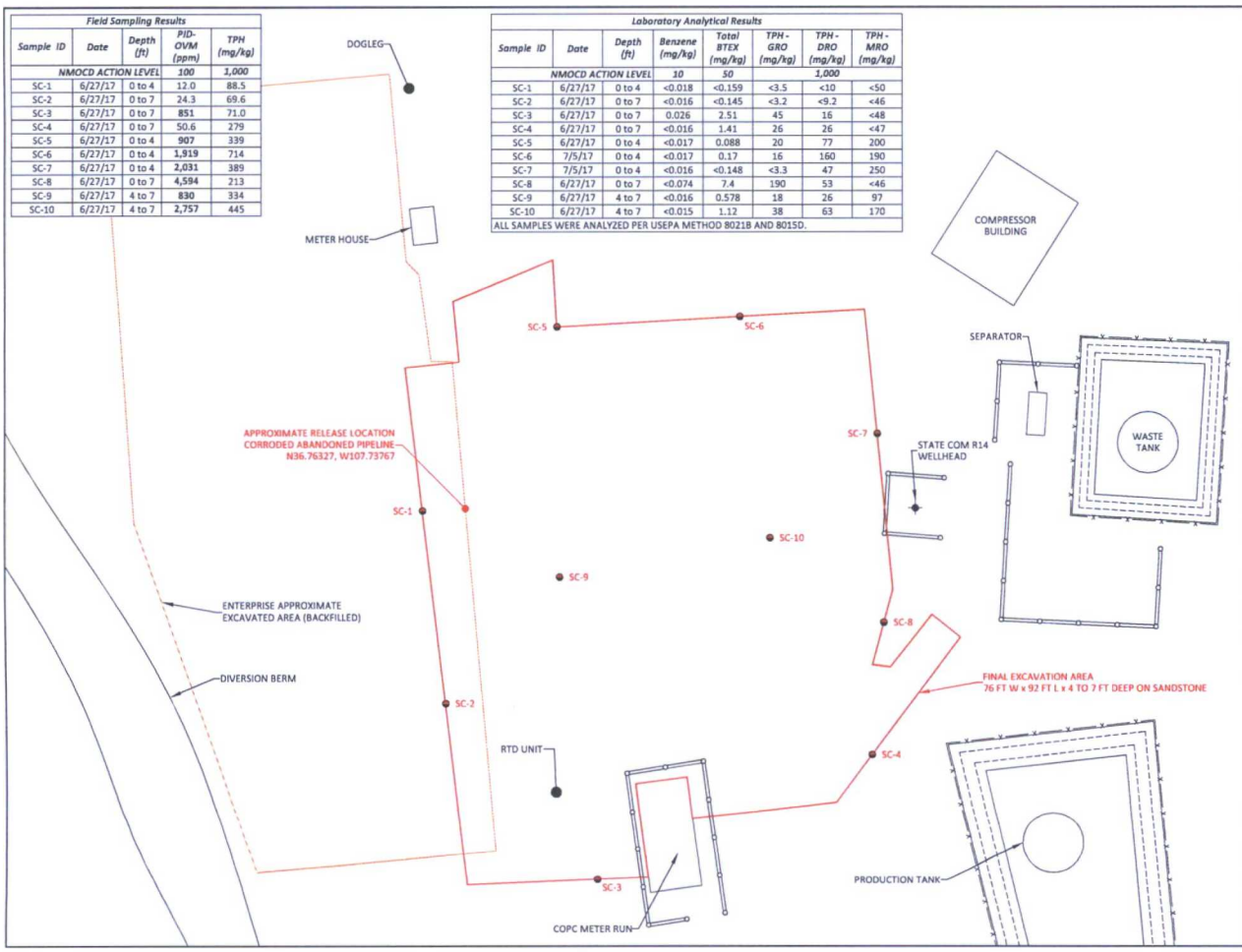


FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS JUNE AND JULY 2017

ConocoPhillips
STATE COM R 14 CDP
SW¼ SW¼, SECTION 36, T30N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.76325, W107.73741

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: July 10, 2017
REVISIONS BY: S. Glasses	DATE REVISED: July 11, 2017
CHECKED BY: E. McNally	DATE CHECKED: July 11, 2017
APPROVED BY: E. McNally	DATE APPROVED: July 11, 2017

LEGEND

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

N

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

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: State Com R 14 CDP

Date: 2/17/2017

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 2'	2/17/2017	9:38	101	74.3	10:26	20.0	1	CL
SB-1 @ 4.25	2/17/2017	9:42	163	103	10:29	20.0	1	CL
SB-2 @ 0.5'	2/17/2017	9:47	1,136	180	10:33	20.0	1	CL
SB-2 @ 5'	2/17/2017	9:58	4,286	2,320	10:45	200	10	CL
SB-3 @ 0.75	2/17/2017	10:04	222	*Not Analyzed for TPH*				
SB-3 @ 4'	2/17/2017	10:15	4,517	9,020	10:56	200	10	CL
SB-4 @ 0.75	2/17/2017	10:19	335	*Not Analyzed for TPH*				
SB-4 @ 5'	2/17/2017	10:30	5,223	533	10:59	20.0	1	CL
SB-5 @ 1'	2/17/2017	10:58	420	*Not Analyzed for TPH*				
SB-5 @ 4.25	2/17/2017	11:07	6,284	3,200	11:37	200	10	CL
SB-6 @ 1'	2/17/2017	11:13	227	*Not Analyzed for TPH*				
SB-6 @ 3'	2/17/2017	11:22	374	234	11:41	20.0	1	CL
SB-7 @ 4'	2/17/2017	11:37	9.6	45.7	12:00	20.0	1	CL
SB-8 @ 2.25	2/17/2017	11:48	94.7	38.5	12:07	20.0	1	CL

Report Finalized: 2/17/17

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-9 @ 4.25	2/17/2017	12:05	15.1	48.5	12:35	20.0	1	CL
SB-10 @ 5'	2/17/2017	12:16	1.1	42.8	12:39	20.0	1	CL
SB-11 @ 5'	2/17/2017	12:26	0.0	37.1	12:44	20.0	1	CL
SB-12 @ 4'	2/17/2017	13:35	45.8	437	14:02	20.0	1	CL
SB-13 @ 2'	2/17/2017	13:42	11.8	31.3	14:05	20.0	1	CL

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: 

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: State Com R 14 CDP

Date: 6/27/2017

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/27/2017	8:50	W Wall N 1/2	12.0	88.5	9:53	20.0	1	CL
SC-2	6/27/2017	8:55	W Wall S 1/2	24.3	69.6	9:59	20.0	1	CL
SC-3	6/27/2017	12:20	S Wall W 1/2	851	71.0	12:45	20.0	1	CL
SC-4	6/27/2017	9:10	S Wall E 1/2	50.6	279	10:10	20.0	1	CL
SC-5	6/27/2017	9:50	N Wall W 1/2	907	339	10:36	20.0	1	CL
SC-6	6/27/2017	9:55	N Wall E 1/2	1,919	714	10:41	20.0	1	CL
SC-7	6/27/2017	12:25	E Wall N 1/2	2,031	389	12:50	20.0	1	CL
SC-8	6/27/2017	12:30	E Wall S 1/2	4,594	213	12:53	20.0	1	CL
SC-9	6/27/2017	10:38	Base W 1/2	830	334	11:11	20.0	1	CL
SC-10	6/27/2017	10:42	Base E 1/2	2,757	445	11:17	20.0	1	CL

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

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Report Finalized: 6/27/17

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

June 29, 2017

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

RE: COPC State Com R14 CDP OrderNo.: 1706E67

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/28/2017 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1706E67**
Date Reported: **6/29/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-8
Project: COPC State Com R14 CDP
Collection Date: 6/27/2017 12:30:00 PM
Lab ID: 1706E67-001 **Matrix:** SOIL **Received Date:** 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	53	9.3		mg/Kg	1	6/28/2017 11:12:12 AM	32530
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/28/2017 11:12:12 AM	32530
Surr: DNOP	111	70-130		%Rec	1	6/28/2017 11:12:12 AM	32530
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	190	15		mg/Kg	5	6/28/2017 9:33:01 AM	G43850
Surr: BFB	774	54-150	S	%Rec	5	6/28/2017 9:33:01 AM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.074		mg/Kg	5	6/28/2017 9:33:01 AM	B43850
Toluene	0.31	0.15		mg/Kg	5	6/28/2017 9:33:01 AM	B43850
Ethylbenzene	0.89	0.15		mg/Kg	5	6/28/2017 9:33:01 AM	B43850
Xylenes, Total	6.2	0.30		mg/Kg	5	6/28/2017 9:33:01 AM	B43850
Surr: 4-Bromofluorobenzene	149	66.6-132	S	%Rec	5	6/28/2017 9:33:01 AM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E67**

29-Jun-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **MB-32530**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **32530**	RunNo: **43842**
Prep Date: **6/28/2017**	Analysis Date: **6/28/2017**	SeqNo: **1381829** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	70	130			

Sample ID **LCS-32530**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **32530**	RunNo: **43842**
Prep Date: **6/28/2017**	Analysis Date: **6/28/2017**	SeqNo: **1381830** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.3	73.2	114			
Surr: DNOP	5.1		5.000		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E67**

29-Jun-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382732** 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	930		1000		92.6	54	150			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382733** 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	101	76.4	125			
Surr: BFB	1100		1000		111	54	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E67**

29-Jun-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382749** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		119	66.6	132			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382750** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	66.6	132			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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: 1706E67 RcptNo: 1

Received By: Anne Thorne 6/28/2017 8:00:00 AM Anne Thorne
Completed By: Anne Thorne 6/28/2017 8:45:31 AM Anne Thorne
Reviewed By: AJS 6/28/17

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

Client: Animas Environmental Services, LLC

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

Phone #: 505-564-2281

Email or Fax#: clameman@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type)_____

Turn-Around Time:
☐ Standard X Rush SAME DAY

Project Name:
COPC State Com R14 CDP

Project #:

Project Manager:
C. Lameman/E. McNally

Sampler: CL
On Ice: ☑ Yes ☐ No
Sample Temperature: 0°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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.	BTEX - 8021B	TPH (GRO/DRO/MRO) - 8015	Air Bubbles (Y or N)
						1706E67			
6/27/17	12:30	SOIL	SC-8	1 - MeOH Kit 1 - 4 oz jar	cool	-001	X	X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/27/17	1754			6/27/17	1754
Date:	Time:	Relinquished by:	Received by:	Date	Time
				06/28/17	0700

Remarks: Bill to Conoco Phillips
WO # ~~10400999~~ cc 21992650
Supervisor: Eric Wyckoff
USERID: KAITLW
Area:
Ordered by: Lisa Hunter

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.

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#: clameman@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type)_____

Turn Around Time:
☐ Standard X Rush SAME DAY

Project Name:
COPC State Com R14 CDP

Project #:

Project Manager:
C. Lameman/E. McNally

Sampler: CL
On Ice: X 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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1701267	BTEX - 8021B	TPH (GRO/DRO/MRO) - 8015	Air Bubbles (Y or N)
6/27/17	12:30	SOIL	SC-8	1 - MeOH Kit 1 - 4 oz jar	cool	001	X	X	

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/27/17	1754		Christy Walters	6/27/17	1754
Date:	Time:	Relinquished by:	Received by:	Date	Time
6/27/17	1938	Christy Walters		06/28/17	0800

Remarks: Bill to Conoco Phillips
WO # 10400999
Supervisor:
USERID:
Area:
Ordered by: Lisa Hunter

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.

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

June 29, 2017

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

RE: COPC State Com R14 CDP OrderNo.: 1706E69

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/28/2017 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1706E69**
Date Reported: **6/29/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC State Com R14 CDP
Lab ID: 1706E69-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 6/27/2017 8:50:00 AM
Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/29/2017 8:15:31 AM	32532
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2017 8:15:31 AM	32532
Surr: DNOP	87.5	70-130		%Rec	1	6/29/2017 8:15:31 AM	32532
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/28/2017 11:09:10 AM	G43850
Surr: BFB	94.8	54-150		%Rec	1	6/28/2017 11:09:10 AM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	6/28/2017 11:09:10 AM	B43850
Toluene	ND	0.035		mg/Kg	1	6/28/2017 11:09:10 AM	B43850
Ethylbenzene	ND	0.035		mg/Kg	1	6/28/2017 11:09:10 AM	B43850
Xylenes, Total	ND	0.071		mg/Kg	1	6/28/2017 11:09:10 AM	B43850
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	6/28/2017 11:09:10 AM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC State Com R14 CDP
Lab ID: 1706E69-002 **Matrix:** SOIL

Client Sample ID: SC-2
Collection Date: 6/27/2017 8:55:00 AM
Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/29/2017 8:43:23 AM	32532
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/29/2017 8:43:23 AM	32532
Surr: DNOP	94.0	70-130		%Rec	1	6/29/2017 8:43:23 AM	32532
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	6/28/2017 11:33:22 AM	G43850
Surr: BFB	95.5	54-150		%Rec	1	6/28/2017 11:33:22 AM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/28/2017 11:33:22 AM	B43850
Toluene	ND	0.032		mg/Kg	1	6/28/2017 11:33:22 AM	B43850
Ethylbenzene	ND	0.032		mg/Kg	1	6/28/2017 11:33:22 AM	B43850
Xylenes, Total	ND	0.065		mg/Kg	1	6/28/2017 11:33:22 AM	B43850
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	6/28/2017 11:33:22 AM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC State Com R14 CDP
Lab ID: 1706E69-003 **Matrix:** SOIL

Client Sample ID: SC-3
Collection Date: 6/27/2017 12:20:00 PM
Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	16	9.7		mg/Kg	1	6/29/2017 9:11:12 AM	32532
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/29/2017 9:11:12 AM	32532
Surr: DNOP	90.1	70-130		%Rec	1	6/29/2017 9:11:12 AM	32532
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	45	2.9		mg/Kg	1	6/28/2017 11:57:18 AM	G43850
Surr: BFB	542	54-150	S	%Rec	1	6/28/2017 11:57:18 AM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.026	0.014		mg/Kg	1	6/28/2017 11:57:18 AM	B43850
Toluene	0.13	0.029		mg/Kg	1	6/28/2017 11:57:18 AM	B43850
Ethylbenzene	0.25	0.029		mg/Kg	1	6/28/2017 11:57:18 AM	B43850
Xylenes, Total	2.1	0.057		mg/Kg	1	6/28/2017 11:57:18 AM	B43850
Surr: 4-Bromofluorobenzene	140	66.6-132	S	%Rec	1	6/28/2017 11:57:18 AM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC State Com R14 CDP
Lab ID: 1706E69-004 **Matrix:** SOIL

Client Sample ID: SC-4
Collection Date: 6/27/2017 9:10:00 AM
Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	26	9.5		mg/Kg	1	6/29/2017 9:38:55 AM	32532
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/29/2017 9:38:55 AM	32532
Surr: DNOP	90.5	70-130		%Rec	1	6/29/2017 9:38:55 AM	32532
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	26	3.2		mg/Kg	1	6/28/2017 1:09:06 PM	G43850
Surr: BFB	319	54-150	S	%Rec	1	6/28/2017 1:09:06 PM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/28/2017 1:09:06 PM	B43850
Toluene	0.099	0.032		mg/Kg	1	6/28/2017 1:09:06 PM	B43850
Ethylbenzene	0.11	0.032		mg/Kg	1	6/28/2017 1:09:06 PM	B43850
Xylenes, Total	1.2	0.064		mg/Kg	1	6/28/2017 1:09:06 PM	B43850
Surr: 4-Bromofluorobenzene	131	66.6-132		%Rec	1	6/28/2017 1:09:06 PM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC State Com R14 CDP
Lab ID: 1706E69-005 **Matrix:** SOIL

Client Sample ID: SC-5
Collection Date: 6/27/2017 9:50:00 AM
Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	77	9.4		mg/Kg	1	6/29/2017 10:06:44 AM	32532
Motor Oil Range Organics (MRO)	200	47		mg/Kg	1	6/29/2017 10:06:44 AM	32532
Surr: DNOP	95.0	70-130		%Rec	1	6/29/2017 10:06:44 AM	32532
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	20	3.5		mg/Kg	1	6/28/2017 1:33:09 PM	G43850
Surr: BFB	230	54-150	S	%Rec	1	6/28/2017 1:33:09 PM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	6/28/2017 1:33:09 PM	B43850
Toluene	ND	0.035		mg/Kg	1	6/28/2017 1:33:09 PM	B43850
Ethylbenzene	ND	0.035		mg/Kg	1	6/28/2017 1:33:09 PM	B43850
Xylenes, Total	0.088	0.070		mg/Kg	1	6/28/2017 1:33:09 PM	B43850
Surr: 4-Bromofluorobenzene	134	66.6-132	S	%Rec	1	6/28/2017 1:33:09 PM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC State Com R14 CDP
Lab ID: 1706E69-006 **Matrix:** SOIL

Client Sample ID: SC-9
Collection Date: 6/27/2017 10:38:00 AM
Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	26	9.6		mg/Kg	1	6/29/2017 11:02:59 AM	32532
Motor Oil Range Organics (MRO)	97	48		mg/Kg	1	6/29/2017 11:02:59 AM	32532
Surr: DNOP	109	70-130		%Rec	1	6/29/2017 11:02:59 AM	32532
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	18	3.2		mg/Kg	1	6/28/2017 1:57:13 PM	G43850
Surr: BFB	272	54-150	S	%Rec	1	6/28/2017 1:57:13 PM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	6/28/2017 1:57:13 PM	B43850
Toluene	0.045	0.032		mg/Kg	1	6/28/2017 1:57:13 PM	B43850
Ethylbenzene	0.063	0.032		mg/Kg	1	6/28/2017 1:57:13 PM	B43850
Xylenes, Total	0.47	0.064		mg/Kg	1	6/28/2017 1:57:13 PM	B43850
Surr: 4-Bromofluorobenzene	133	66.6-132	S	%Rec	1	6/28/2017 1:57:13 PM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC State Com R14 CDP
Lab ID: 1706E69-007 **Matrix:** SOIL

Client Sample ID: SC-10
Collection Date: 6/27/2017 10:42:00 AM
Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	63	10		mg/Kg	1	6/29/2017 11:31:11 AM	32532
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	6/29/2017 11:31:11 AM	32532
Surr: DNOP	92.4	70-130		%Rec	1	6/29/2017 11:31:11 AM	32532
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	38	3.1		mg/Kg	1	6/28/2017 2:21:15 PM	G43850
Surr: BFB	472	54-150	S	%Rec	1	6/28/2017 2:21:15 PM	G43850
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	6/28/2017 2:21:15 PM	B43850
Toluene	0.092	0.031		mg/Kg	1	6/28/2017 2:21:15 PM	B43850
Ethylbenzene	0.12	0.031		mg/Kg	1	6/28/2017 2:21:15 PM	B43850
Xylenes, Total	0.91	0.061		mg/Kg	1	6/28/2017 2:21:15 PM	B43850
Surr: 4-Bromofluorobenzene	134	66.6-132	S	%Rec	1	6/28/2017 2:21:15 PM	B43850

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E69**

29-Jun-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **MB-32532**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **32532**	RunNo: **43873**
Prep Date: **6/28/2017**	Analysis Date: **6/29/2017**	SeqNo: **1382816** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

Sample ID **LCS-32532**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **32532**	RunNo: **43873**
Prep Date: **6/28/2017**	Analysis Date: **6/29/2017**	SeqNo: **1382994** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.9	73.2	114			
Surr: DNOP	5.2		5.000		103	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E69**

29-Jun-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382732** 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	930		1000		92.6	54	150			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382733** 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	101	76.4	125			
Surr: BFB	1100		1000		111	54	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706E69**

29-Jun-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382749** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		119	66.6	132			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382750** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	66.6	132			

Sample ID **1706E69-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **B43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382754** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.018	0.7082	0	108	61.5	138			
Toluene	0.77	0.035	0.7082	0.005949	108	71.4	127			
Ethylbenzene	0.78	0.035	0.7082	0	110	70.9	132			
Xylenes, Total	2.4	0.071	2.125	0.02146	111	76.2	123			
Surr: 4-Bromofluorobenzene	0.88		0.7082		124	66.6	132			

Sample ID **1706E69-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **B43850**	RunNo: **43850**
Prep Date:	Analysis Date: **6/28/2017**	SeqNo: **1382755** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.018	0.7082	0	104	61.5	138	3.45	20	
Toluene	0.75	0.035	0.7082	0.005949	105	71.4	127	3.28	20	
Ethylbenzene	0.76	0.035	0.7082	0	107	70.9	132	2.60	20	
Xylenes, Total	2.3	0.071	2.125	0.02146	108	76.2	123	2.48	20	
Surr: 4-Bromofluorobenzene	0.86		0.7082		122	66.6	132	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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: 1706E69 RcptNo: 1

Received By: Anne Thorne 6/28/2017 8:00:00 AM Anne Thorne

Completed By: Anne Thorne 6/28/2017 9:10:17 AM Anne Thorne

Reviewed By: SRC 06/28/17

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

Client: Animas Environmental Services, LLC

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

Phone #: 505-564-2281

Email or Fax#: clameman@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard X Rush 2-DAY TAT

Project Name:
COPC State Com R14 CDP

Project #:

Project Manager:
C. Lameman/E. McNally

Sampler: CL
On Ice: X Yes ☐ No
Sample Temperature: .0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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. 1706E69	BTEX - 8021B	TPH (GRO/DRO/MRO) - 8015	Air Bubbles (Y or N)
6/27/17	8:50	SOIL	SC-1	1 - MeOH Kit 1 - 4 oz jar	cool	-001	X	X	
6/27/17	8:55	SOIL	SC-2	1 - MeOH Kit 1 - 4 oz jar	cool	-002	X	X	
6/27/17	12:20	SOIL	SC-3	1 - MeOH Kit 1 - 4 oz jar	cool	-003	X	X	
6/27/17	9:10	SOIL	SC-4	1 - MeOH Kit 1 - 4 oz jar	cool	-004	X	X	
6/27/17	9:50	SOIL	SC-5	1 - MeOH Kit 1 - 4 oz jar	cool	-005	X	X	
6/27/17	10:38	SOIL	SC-9	1 - MeOH Kit 1 - 4 oz jar	cool	-006	X	X	
6/27/17	10:42	SOIL	SC-10	1 - MeOH Kit 1 - 4 oz jar	cool	-007	X	X	

Date	Time	Relinquished by:	Received by:	Date	Time
6/27/17	1754		Christine Walker	6/27/17	1754
Date:	Time:	Relinquished by:	Received by:	Date	Time
				6/28/17	0900

Remarks: Bill to Conoco Phillips
WO # ~~10400999~~ a 21992680
Supervisor: Eric Wyckoff
USERID: KAITLW
Area:
Ordered by: Lisa Hunter

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 10, 2017

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

RE: COPC State Com R14 CDP OrderNo.: 1707252

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/7/2017 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
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-7
Project: COPC State Com R14 CDP
Collection Date: 7/5/2017 9:25:00 AM
Lab ID: 1707252-001
Matrix: MEOH (SOIL)
Received Date: 7/7/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	47	9.7		mg/Kg	1	7/7/2017 10:04:57 AM	32675
Motor Oil Range Organics (MRO)	250	48		mg/Kg	1	7/7/2017 10:04:57 AM	32675
Surr: DNOP	88.7	70-130		%Rec	1	7/7/2017 10:04:57 AM	32675
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/7/2017 10:00:38 AM	32652
Surr: BFB	126	54-150		%Rec	1	7/7/2017 10:00:38 AM	32652
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	7/7/2017 10:00:38 AM	32652
Toluene	ND	0.033		mg/Kg	1	7/7/2017 10:00:38 AM	32652
Ethylbenzene	ND	0.033		mg/Kg	1	7/7/2017 10:00:38 AM	32652
Xylenes, Total	ND	0.066		mg/Kg	1	7/7/2017 10:00:38 AM	32652
Surr: 4-Bromofluorobenzene	135	66.6-132	S	%Rec	1	7/7/2017 10:00:38 AM	32652

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-6
Project: COPC State Com R14 CDP
Collection Date: 7/5/2017 9:30:00 AM
Lab ID: 1707252-002
Matrix: MEOH (SOIL)
Received Date: 7/7/2017 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	160	9.8		mg/Kg	1	7/7/2017 10:32:43 AM	32675
Motor Oil Range Organics (MRO)	190	49		mg/Kg	1	7/7/2017 10:32:43 AM	32675
Surr: DNOP	92.0	70-130		%Rec	1	7/7/2017 10:32:43 AM	32675
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	16	3.3		mg/Kg	1	7/7/2017 10:25:08 AM	32652
Surr: BFB	385	54-150	S	%Rec	1	7/7/2017 10:25:08 AM	32652
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	7/7/2017 10:25:08 AM	32652
Toluene	ND	0.033		mg/Kg	1	7/7/2017 10:25:08 AM	32652
Ethylbenzene	ND	0.033		mg/Kg	1	7/7/2017 10:25:08 AM	32652
Xylenes, Total	0.17	0.067		mg/Kg	1	7/7/2017 10:25:08 AM	32652
Surr: 4-Bromofluorobenzene	138	66.6-132	S	%Rec	1	7/7/2017 10:25:08 AM	32652

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707252**

10-Jul-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **LCS-32656**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **32656**	RunNo: **44043**
Prep Date: **7/6/2017**	Analysis Date: **7/7/2017**	SeqNo: **1388858** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.5	70	130			

Sample ID **MB-32656**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **32656**	RunNo: **44043**
Prep Date: **7/6/2017**	Analysis Date: **7/7/2017**	SeqNo: **1388859** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Sample ID **LCS-32675**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **32675**	RunNo: **44044**
Prep Date: **7/7/2017**	Analysis Date: **7/7/2017**	SeqNo: **1389417** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	73.2	114			
Surr: DNOP	4.3		5.000		86.5	70	130			

Sample ID **MB-32675**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **32675**	RunNo: **44044**
Prep Date: **7/7/2017**	Analysis Date: **7/7/2017**	SeqNo: **1389418** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.8	70	130			

Sample ID **1707252-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SC-7**	Batch ID: **32675**	RunNo: **44044**
Prep Date: **7/7/2017**	Analysis Date: **7/7/2017**	SeqNo: **1389573** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	88	9.8	48.92	46.61	85.1	55.8	122			
Surr: DNOP	4.7		4.892		95.1	70	130			

Sample ID **1707252-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SC-7**	Batch ID: **32675**	RunNo: **44044**
Prep Date: **7/7/2017**	Analysis Date: **7/7/2017**	SeqNo: **1389808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	10	50.20	46.61	118	55.8	122	18.0	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707252**

10-Jul-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **1707252-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SC-7**	Batch ID: **32675**	RunNo: **44044**
Prep Date: **7/7/2017**	Analysis Date: **7/7/2017**	SeqNo: **1389808** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.020		102	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707252**

10-Jul-17

Client: Animas Environmental
Project: COPC State Com R14 CDP

Sample ID **MB-32652**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **32652**	RunNo: **44055**
Prep Date: **7/6/2017**	Analysis Date: **7/7/2017**	SeqNo: **1390847** 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	990		1000		99.3	54	150			

Sample ID **LCS-32652**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **32652**	RunNo: **44055**
Prep Date: **7/6/2017**	Analysis Date: **7/7/2017**	SeqNo: **1390848** 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	99.6	76.4	125			
Surr: BFB	1100		1000		113	54	150			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707252**

10-Jul-17

Client: Animas Environmental

Project: COPC State Com R14 CDP

Sample ID **MB-32652**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **32652**	RunNo: **44055**
Prep Date: **7/6/2017**	Analysis Date: **7/7/2017**	SeqNo: **1390864** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		129	66.6	132			

Sample ID **LCS-32652**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **32652**	RunNo: **44055**
Prep Date: **7/6/2017**	Analysis Date: **7/7/2017**	SeqNo: **1390865** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		130	66.6	132			

Sample ID **MB-32630**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **32630**	RunNo: **44055**
Prep Date: **7/5/2017**	Analysis Date: **7/7/2017**	SeqNo: **1390879** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3		1.000		126	66.6	132			

Sample ID **LCS-32630**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **32630**	RunNo: **44055**
Prep Date: **7/5/2017**	Analysis Date: **7/7/2017**	SeqNo: **1390880** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3		1.000		132	66.6	132			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

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: **1707252** RcptNo: **1**

Received By: **Erin Melendrez** **7/7/2017 7:50:00 AM**

Completed By: **Ashley Gallegos** **7/7/2017 8:39:58 AM**

Reviewed By: 7/7/17

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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	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	2.4	Good	Not Present			

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#: clameman@animasenvironmental.com

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

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard X Rush SAME DAY

Project Name:
COPC State Com R14 CDP

Project #:

Project Manager:
C. Lameman/E. McNally

Sampler: CL
On Ice: ☒ Yes ☐ No
Sample Temperature: 4.2.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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 (7/10/17 MS Per C. Lameman)	Container Type and #	Preservative Type	HEAL No. 1707052	BTEX - 8021B	TPH (GRO/DRO/MRO) - 8015	Air Bubbles (Y or N)
7/5/17	09:25	SOIL	SC-~~5~~-7	1 - MeOH Kit 1 - 4 oz jar	cool	-001	X	X	
7/5/17	09:30	SOIL	SC-6	1 - MeOH Kit 1 - 4 oz jar	cool	-002	X	X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
7-6-17	15:39			7/7/17	0750
Date:	Time:	Relinquished by:	Received by:	Date	Time
				~~7/7~~	~~0750~~

Remarks: Bill to Conoco Phillips
WO # ~~10400999~~ ~~21992650~~ cc 21992650
Supervisor: Eric Wyckoff
USERID: KAITLN
Area:
Ordered by: Lisa Hunter

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.