

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: San Juan 28-7 261G	Facility Type: Gas	
Surface Owner BLM	Mineral Owner SF-078565-A	API No. 30-039-27061

LOCATION OF RELEASE

Unit Letter D	Section 05	Township 27N	Range 07W	Feet from the 395'	North/South Line FNL	Feet from the 790'	East/West Line FWL	County Rio Arriba
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Latitude 36.60981 Longitude -107.60296

NATURE OF RELEASE

Type of Release Hydrocarbon and produced water	Volume of Release 103.5 bbls HC/10 bbls PW	Volume Recovered 0 bbls
Source of Release Production tank drain line	Date and Hour of Occurrence unknown	Date and Hour of Discovery 8/18/2015 @ 1:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith and Shari Ketcham	
By Whom? Lindsay Dumas	Date and Hour 8/19/2015 7AM phone call/ 3 pm email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

OIL CONS. DIV DIST. 3

SEP 21 2016

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

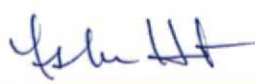

Describe Cause of Problem and Remedial Action Taken.*

A vandal opened the drain valve and moved the drain line from dumping into the pit to dumping on the ground; releasing 113.5 bbls of hydrocarbon and produced water onto the ground.

Describe Area Affected and Cleanup Action Taken.*

Excavation was 56' x 79' x 3-6' Deep. Approximately 655 c/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	
Printed Name: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 12/9/2016	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval: NCS1524540640	Attached <input type="checkbox"/>
Date: September 19, 2016	Phone: (505) 258-1643	

* Attach Additional Sheets If Necessary



August 30, 2016

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

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

OIL CONS. DIV DIST. 3

SEP 21 2016

**RE: Release Assessment and Final Excavation Report
San Juan 28-7 #261G
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

On August 24, 2015, July 6 and July 8, 2016, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) San Juan 28-7 #261G, located in Rio Arriba County, New Mexico. The release consisted of approximately 113 barrels (bbls), including produced water (10 bbls) and condensate (103 bbls), and was the result of vandalism at the location. The initial release assessment was completed by AES on August 24, 2015, and the final excavation was completed by COPC contractors prior to AES' arrival at the location on July 8, 2016.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-7 #261G

Location – NW¼ NW¼, Section 5, T27N, R7W, Rio Arriba County, New Mexico

Well Head Latitude/Longitude – N36.60968 and W107.60261, respectively

Release Location Latitude/Longitude – N36.60981 and W107.60296, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, August 2015 and July 2016

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

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 0 based on the following factors:

- **Depth to Groundwater:** 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. (0 points)
- **Distance to Surface Water Body:** Stove Canyon is approximately 2,300 feet west of the location. (0 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of COPC on August 19, 2015, and on August 24, 2015, Emilee Skyles and Sam Glasses of AES completed the release assessment field work. The assessment included collection and field sampling of 17 soil samples from 11 borings in and around the release area. Soil borings were terminated at depths between 0.5 and 4 feet. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3 and Figure 4.

On July 6 and July 8, 2016, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of eight confirmation soil samples (SC-1 through SC-8) from the walls and base of the excavation. The area of the final excavation measured approximately 56 feet by 79 feet by 3 to 6 feet in depth. Sample locations and final excavation extents are presented on Figure 5.

2.0 Soil Sampling

A total of 25 soil samples from 11 borings (SB-1 through SB-11) and 8 composite samples (SC-1 through SC-8) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Eight composite samples (SC-1 through SC-8) collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

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

- 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.

2.3 Field and Laboratory Analytical Results

On August 24, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.4 ppm in SB-11 up to 3,238 ppm in SB-4. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-9, SB-10, and SB-11 up to 12,500 mg/kg in SB-2.

On July 6 and July 8, 2016, final excavation field screening results for VOCs via OVM ranged from 19.0 ppm in SC-8 up to 4,336 ppm in SC-2. Field TPH concentrations ranged from 22.8 mg/kg in SC-3 up to 920 mg/kg in SC-1. Results are included below in Table 1 and on Figures 3 and 5. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs and TPH Results
San Juan 28-7 #261G Initial Release Assessment and Final Excavation
August 2015 and July 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
NMOCD Action Level*			100	5,000
SB-1	8/24/15	1.5	2,925	2,580
SB-2	8/24/15	2	2,879	12,500
		2.5	2,454	NA
SB-3	8/24/15	1	25.0	25.8
SB-4	8/24/15	2	85.7	NA
		4	3,238	1,240
SB-5	8/24/15	0.5	7.2	NA
SB-6	8/24/15	1.5	2,709	NA
		2.5	2,289	10,000
SB-7	8/24/15	1	16.6	NA
SB-8	8/24/15	2	55.5	NA
		3	1,980	NA
		4	2,778	6,300
SB-9	8/24/15	2	16.1	<20.0
SB-10	8/24/15	2	6.9	NA
		4	5.8	<20.0
SB-11	8/24/15	2	0.4	<20.0
SC-1	7/8/16	3	2,743	920
SC-2	7/8/16	4 to 6	4,336	297
SC-3	7/6/16	0 to 6	62.4	22.8
SC-4	7/6/16	0 to 4	106	32.6
SC-5	7/6/16	0 to 3	168	47.3
SC-6	7/6/16	0 to 3	67.2	35.8
SC-7	7/6/16	0 to 3	43.7	27.7
SC-8	7/6/16	0 to 6	19.0	55.4

NA - not analyzed

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

Laboratory analyses for SC-1 through SC-8 were used to confirm field sampling results from the final excavation. Benzene concentrations in all samples were reported below laboratory detection limits. Total BTEX concentrations ranged from below laboratory detection limits in SC-4 through SC-8 up to 3.26 mg/kg in SC-1. TPH concentrations as GRO/DRO ranged from laboratory detection limits in SC-4, SC-6 and SC-7 up to 550 mg/kg in SC-1. Results are presented in Table 2 and on Figure 5. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
San Juan 28-7 #261G Final Excavation
July 2016

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>10</i>	<i>50</i>	<i>5,000</i>	
SC-1	7/8/16	3	<0.078	3.26	120	430
SC-2	7/8/16	4 to 6	<0.079	2.18	78	100
SC-3	7/6/16	0 to 6	<0.023	0.14	<4.7	12
SC-4	7/6/16	0 to 4	<0.024	<0.216	<4.8	<10
SC-5	7/6/16	0 to 3	<0.025	<0.222	<4.9	17
SC-6	7/6/16	0 to 3	<0.025	<0.221	<4.9	<10
SC-7	7/6/16	0 to 3	<0.024	<0.217	<4.8	<9.9
SC-8	7/6/16	0 to 6	<0.024	<0.217	<4.8	23

*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 August 24, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with a release consisting of produced water and condensate at the San Juan 28-7 #261G. 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 0.

Initial assessment field sampling results were reported above the NMOCD action level of 100 ppm VOCs and 5,000 mg/kg TPH in SB-1, SB-2, SB-4, SB-6 and SB-8. The highest VOC concentration was reported in SB-4 with 3,238 ppm, and the highest TPH concentration was reported in SB-2 with 12,500 mg/kg.

On July 6 and July 8, 2016, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls, except for SC-1 (north base) at 2,743 ppm, SC-2 (south base) at 4,336 ppm, SC-4 (SE wall) at 106 ppm and SC-5 (north wall) at 168 ppm. Field TPH concentrations were all below the applicable NMOCD action level of 5,000 mg/kg for the final walls and base of the excavation. Laboratory analytical results for benzene, total BTEX, and TPH concentration as GRO/DRO were reported below the applicable NMOCD action level of 10 mg/kg, 50 mg/kg, and 5,000 mg/kg, respectively.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-7 #261G, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of 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 Emilee Skyles at (505) 564-2281.

Sincerely,



Emilee Skyles
Geologist/Project Lead



Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, August 2015 and July 2016
- Figure 3. Release Assessment Sample Locations and Results, August 2015
- Figure 4. Release Assessment Cross Section, August 2015
- Figure 5. Final Excavation Sample Locations and Results, July 2016
- AES Field Sampling Report 082415
- AES Field Sampling Report 070616
- AES Field Sampling Report 070816
- Hall Laboratory Analytical Report 1607317
- Hall Laboratory Analytical Report 1607407

Lisa Hunter
San Juan 28-7 #261G Release Assessment and Final Excavation Report
August 30, 2016
Page 7

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animasenvironmental.com

DRAWN BY:
D. Dougi

DATE DRAWN:
August 31, 2015

REVISIONS BY:
C. Lameman

DATE REVISED:
July 14, 2016

CHECKED BY:
E. Skyles

DATE CHECKED:
July 14, 2016

APPROVED BY:
E. McNally

DATE APPROVED:
July 14, 2016

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
SAN JUAN 28-7 #261G
NW¼ NW¼, SECTION 5, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.60968, W107.60261



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July 14, 2016

CHECKED BY:
E. Skyles

DATE CHECKED:
July 14, 2016

APPROVED BY:
E. McNally

DATE APPROVED:
July 14, 2016

FIGURE 2

AERIAL SITE MAP AUGUST 2015 AND JULY 2016

ConocoPhillips
SAN JUAN 28-7 #261G
NW¼ NW¼, SECTION 5, T27N, R7W
RIO ARriba COUNTY, NEW MEXICO
N36.60968, W107.60261

FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS AUGUST 2015

ConocoPhillips
SAN JUAN 28-7 261G
NW¼ NW¼, SECTION 5, T27N, R7W
SAN JUAN COUNTY, NEW MEXICO
N36.60968, W107.60261



DRAWN BY:
C. Larneman

DATE DRAWN:
August 25, 2015

REVISIONS BY:
C. Larneman

DATE REVISED:
July 14, 2016

CHECKED BY:
E. Skyles

DATE CHECKED:
July 14, 2016

APPROVED BY:
E. McNally

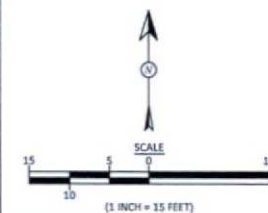
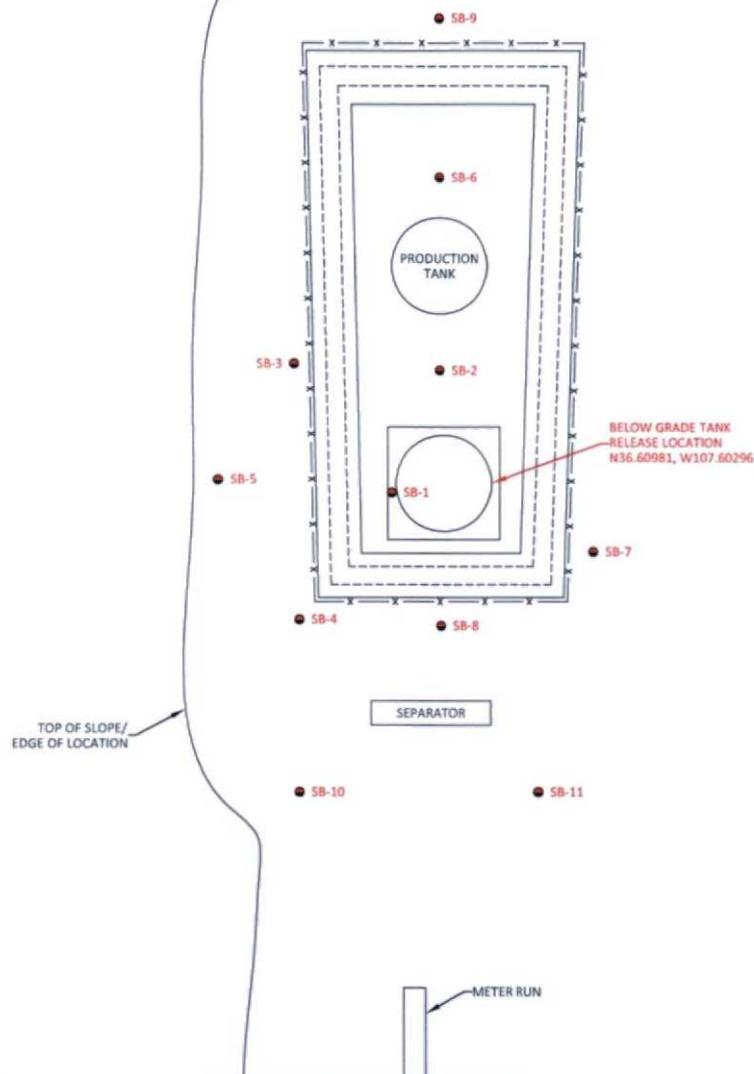
DATE APPROVED:
July 14, 2016

LEGEND

- SOIL BORING LOCATIONS
- ===== SECONDARY CONTAINMENT BERM
- x- FENCE

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	5,000
SB-1	8/24/15	1.5	2,925	2,580
SB-2	8/24/15	2.0	2,879	12,500
		2.5	2,454	NA
SB-3	8/24/15	1.0	25.0	25.8
SB-4	8/24/15	2.0	85.7	NA
		4.0	3,238	1,240
SB-5	8/24/15	0.5	7.2	NA
SB-6	8/24/15	1.5	2,709	NA
		2.5	2,289	10,000
SB-7	8/24/15	1.0	16.6	NA
		2.0	55.5	NA
SB-8	8/24/15	3.0	1,980	NA
		4.0	2,778	6,300
SB-9	8/24/15	2.0	16.1	<20.0
SB-10	8/24/15	2.0	6.9	NA
		4.0	5.8	<20.0
SB-11	8/24/15	2.0	0.4	<20.0

NA - NOT ANALYZED



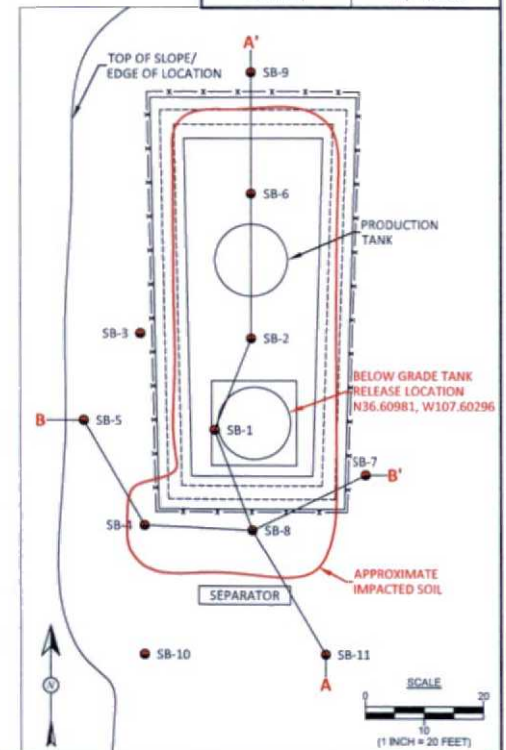
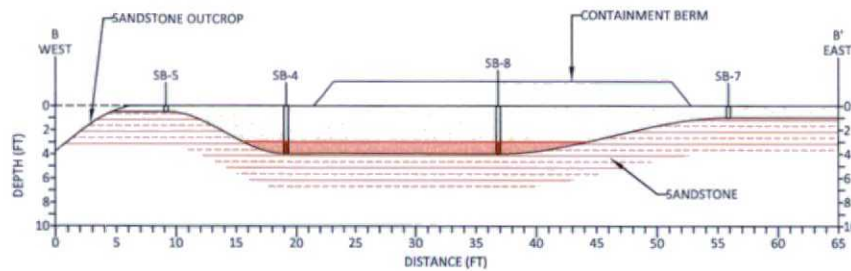
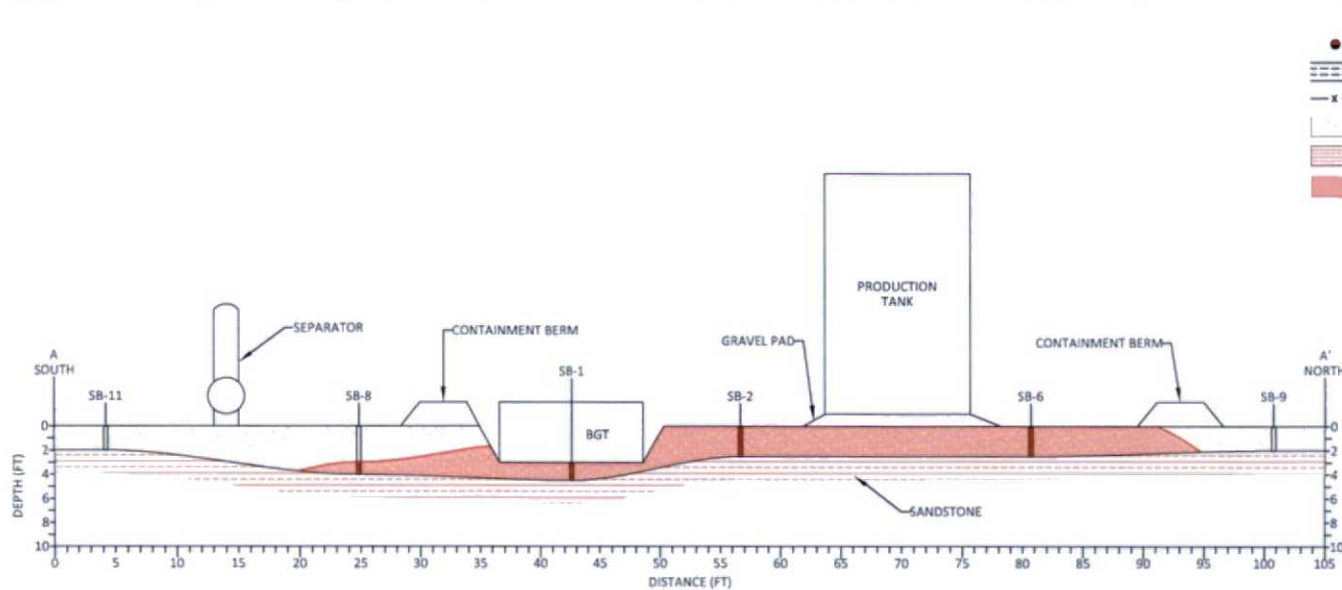


FIGURE 4

**RELEASE ASSESSMENT
CROSS SECTION
AUGUST 2015**

ConocoPhillips
SAN JUAN 28-7 261G
NW¼ NW¼, SECTION 5, T27N, R7W
SAN JUAN COUNTY, NEW MEXICO
N36.60968, W107.60261



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DRAWN BY:
C. Lameman

DATE DRAWN:
August 25, 2015

REVISIONS BY:
C. Lameman

DATE REVISED:
July 14, 2016

CHECKED BY:
E. Skyles

DATE CHECKED:
July 14, 2016

APPROVED BY:
E. McNally

DATE APPROVED:
July 14, 2016

NOT TO SCALE

FIGURE 5

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS JULY 2016

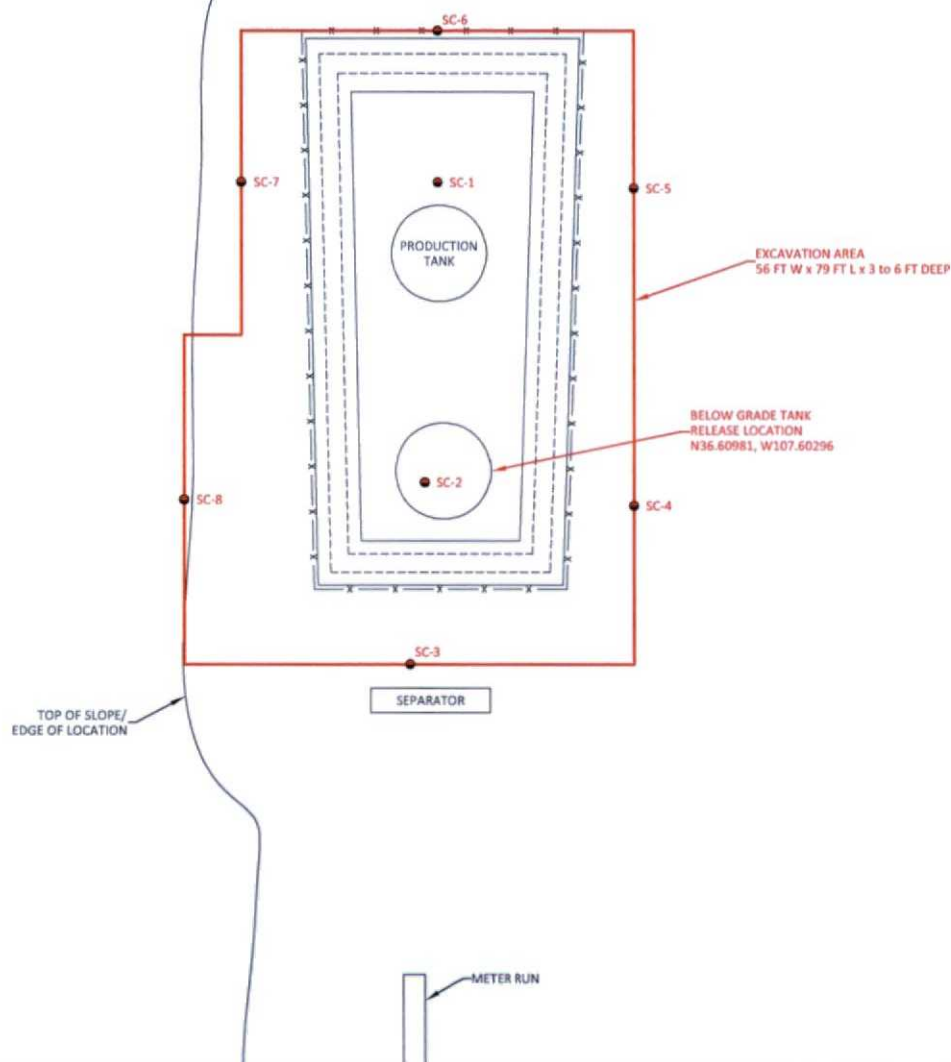
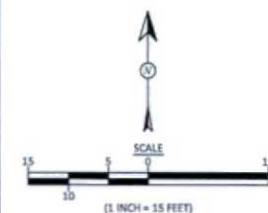
ConocoPhillips
SAN JUAN 28-7 261G
NW¼ NW¼, SECTION 5, T27N, R7W
SAN JUAN COUNTY, NEW MEXICO
N36.60968, W107.60261



DRAWN BY: C. Lameman	DATE DRAWN: July 14, 2016
REVISIONS BY: S. Glasses	DATE REVISED: August 15, 2016
CHECKED BY: E. Skyles	DATE CHECKED: August 15, 2016
APPROVED BY: E. McNally	DATE APPROVED: August 15, 2016

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- x- FENCE



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	5,000
SC-1	7/8/16	3	2,743	920
SC-2	7/8/16	4 to 6	4,336	297
SC-3	7/6/16	0 to 6	62.4	22.8
SC-4	7/6/16	0 to 4	106	32.6
SC-5	7/6/16	0 to 3	168	47.3
SC-6	7/6/16	0 to 3	67.2	35.8
SC-7	7/6/16	0 to 3	43.7	27.7
SC-8	7/6/16	0 to 6	19.0	55.4

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	5,000	
SC-1	7/8/16	3	<0.078	3.26	120	430
SC-2	7/8/16	4 to 6	<0.079	2.18	78	100
SC-3	7/6/16	0 to 6	<0.023	0.14	<4.7	12
SC-4	7/6/16	0 to 4	<0.024	<0.216	<4.8	<10
SC-5	7/6/16	0 to 3	<0.025	<0.222	<4.9	17
SC-6	7/6/16	0 to 3	<0.025	<0.221	<4.9	<10
SC-7	7/6/16	0 to 3	<0.024	<0.217	<4.8	<9.9
SC-8	7/6/16	0 to 6	<0.024	<0.217	<4.8	23

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

SAN JUAN 28-7 261G WELLHEAD

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261G

Date: 7/6/2016

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-3	7/6/2016	14:20	South Wall	62.4	22.8	14:53	20.0	1	CL
SC-4	7/6/2016	12:24	SE Wall	106	32.6	13:18	20.0	1	CL
SC-5	7/6/2016	12:27	N½ N Wall	168	47.3	13:31	20.0	1	CL
SC-6	7/6/2016	12:30	North Wall	67.2	35.8	13:34	20.0	1	CL
SC-7	7/6/2016	14:23	NW Wall	43.7	27.7	14:56	20.0	1	CL
SC-8	7/6/2016	15:39	SW Wall	19.0	55.4	15:51	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:

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261G

Date: 7/8/2016

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	7/8/2016	9:35	North Base	2,743	920	10:00	20.0	1	CL
SC-2	7/8/2016	9:39	South Base	4,336	297	10:03	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:

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261G

Date: 8/24/2015

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 @ 1.5'	8/24/2015	10:45	2,925	2,580	11:17	20.0	1	EMS
SB-2 @ 2'	8/24/2015	10:50	2,879	12,500	12:26	200.0	10	EMS
SB-2 @ 2.5'	8/24/2015	10:55	2,454	Not Analyzed for TPH				
SB-3 @ 1'	8/24/2015	11:10	25.0	25.8	11:29	20.0	1	EMS
SB-4 @ 2'	8/24/2015	11:22	85.7	Not Analyzed for TPH				
SB-4 @ 4'	8/24/2015	11:30	3,238	1,240	11:48	20.0	1	EMS
SB-5 @ 0.5'	8/24/2015	11:46	7.2	Not Analyzed for TPH				
SB-6 @ 1.5'	8/24/2015	12:00	2,709	Not Analyzed for TPH				
SB-6 @ 2.5'	8/24/2015	12:05	2,289	10,000	12:26	200.0	10	EMS
SB-7 @ 1'	8/24/2015	12:15	16.6	Not Analyzed for TPH				
SB-8 @ 2'	8/24/2015	12:28	55.5	Not Analyzed for TPH				
SB-8 @ 3'	8/24/2015	12:32	1,980	Not Analyzed for TPH				
SB-8 @ 4'	8/24/2015	12:46	2,778	6,300	13:06	200.0	10	EMS

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 @ 2'	8/24/2015	12:54	16.1	12.0	13:40	20.0	1	EMS
SB-10 @ 2'	8/24/2015	13:13	6.9	Not Analyzed for TPH				
SB-10 @ 4'	8/24/2015	13:20	5.8	5.0	13:43	20.0	1	EMS
SB-11 @ 2'	8/24/2015	13:30	0.4	3.6	13:45	20.0	1	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: *Eric SkL*



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

July 13, 2016

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

RE: COPC SJ 28-7 261G

OrderNo.: 1607317

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/7/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-3**Project:** COPC SJ 28-7 261G**Collection Date:** 7/6/2016 2:20:00 PM**Lab ID:** 1607317-001**Matrix:** SOIL**Received Date:** 7/7/2016 6:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	12	10		mg/Kg	1	7/11/2016 12:56:24 PM	26309
Surr: DNOP	93.5	70-130		%Rec	1	7/11/2016 12:56:24 PM	26309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/8/2016 11:30:20 PM	26286
Surr: BFB	104	80-120		%Rec	1	7/8/2016 11:30:20 PM	26286
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/8/2016 11:30:20 PM	26286
Toluene	ND	0.047		mg/Kg	1	7/8/2016 11:30:20 PM	26286
Ethylbenzene	ND	0.047		mg/Kg	1	7/8/2016 11:30:20 PM	26286
Xylenes, Total	0.14	0.093		mg/Kg	1	7/8/2016 11:30:20 PM	26286
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	7/8/2016 11:30:20 PM	26286

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
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1607317

Date Reported: 7/13/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-4**Project:** COPC SJ 28-7 261G**Collection Date:** 7/6/2016 12:24:00 PM**Lab ID:** 1607317-002**Matrix:** SOIL**Received Date:** 7/7/2016 6:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/11/2016 1:18:32 PM	26309
Surr: DNOP	89.5	70-130		%Rec	1	7/11/2016 1:18:32 PM	26309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/8/2016 11:53:45 PM	26286
Surr: BFB	103	80-120		%Rec	1	7/8/2016 11:53:45 PM	26286
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/8/2016 11:53:45 PM	26286
Toluene	ND	0.048		mg/Kg	1	7/8/2016 11:53:45 PM	26286
Ethylbenzene	ND	0.048		mg/Kg	1	7/8/2016 11:53:45 PM	26286
Xylenes, Total	ND	0.096		mg/Kg	1	7/8/2016 11:53:45 PM	26286
Surr: 4-Bromofluorobenzene	97.4	80-120		%Rec	1	7/8/2016 11:53:45 PM	26286

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
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1607317

Date Reported: 7/13/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-5**Project:** COPC SJ 28-7 261G**Collection Date:** 7/6/2016 12:27:00 PM**Lab ID:** 1607317-003**Matrix:** SOIL**Received Date:** 7/7/2016 6:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	17	9.8		mg/Kg	1	7/11/2016 1:40:34 PM	26309
Surr: DNOP	93.9	70-130		%Rec	1	7/11/2016 1:40:34 PM	26309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2016 1:27:36 AM	26286
Surr: BFB	123	80-120	S	%Rec	1	7/9/2016 1:27:36 AM	26286
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/9/2016 1:27:36 AM	26286
Toluene	ND	0.049		mg/Kg	1	7/9/2016 1:27:36 AM	26286
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2016 1:27:36 AM	26286
Xylenes, Total	ND	0.099		mg/Kg	1	7/9/2016 1:27:36 AM	26286
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	7/9/2016 1:27:36 AM	26286

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
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1607317

Date Reported: 7/13/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-6**Project:** COPC SJ 28-7 261G**Collection Date:** 7/6/2016 12:30:00 PM**Lab ID:** 1607317-004**Matrix:** SOIL**Received Date:** 7/7/2016 6:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/11/2016 2:26:44 PM	26309
Surr: DNOP	96.0	70-130		%Rec	1	7/11/2016 2:26:44 PM	26309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2016 1:51:10 AM	26286
Surr: BFB	104	80-120		%Rec	1	7/9/2016 1:51:10 AM	26286
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/9/2016 1:51:10 AM	26286
Toluene	ND	0.049		mg/Kg	1	7/9/2016 1:51:10 AM	26286
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2016 1:51:10 AM	26286
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2016 1:51:10 AM	26286
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	7/9/2016 1:51:10 AM	26286

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
	R	RPD outside accepted recovery limits	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-7

Project: COPC SJ 28-7 261G

Collection Date: 7/6/2016 2:23:00 PM

Lab ID: 1607317-005

Matrix: SOIL

Received Date: 7/7/2016 6:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/11/2016 2:48:49 PM	26309
Surr: DNOP	95.4	70-130		%Rec	1	7/11/2016 2:48:49 PM	26309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2016 2:14:43 AM	26286
Surr: BFB	104	80-120		%Rec	1	7/9/2016 2:14:43 AM	26286
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/9/2016 2:14:43 AM	26286
Toluene	ND	0.048		mg/Kg	1	7/9/2016 2:14:43 AM	26286
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2016 2:14:43 AM	26286
Xylenes, Total	ND	0.097		mg/Kg	1	7/9/2016 2:14:43 AM	26286
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	7/9/2016 2:14:43 AM	26286

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
	R	RPD outside accepted recovery limits	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-8

Project: COPC SJ 28-7 261G

Collection Date: 7/6/2016 3:39:00 PM

Lab ID: 1607317-006

Matrix: SOIL

Received Date: 7/7/2016 6:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	23	9.9		mg/Kg	1	7/11/2016 3:10:51 PM	26309
Surr: DNOP	103	70-130		%Rec	1	7/11/2016 3:10:51 PM	26309
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2016 2:38:09 AM	26286
Surr: BFB	99.6	80-120		%Rec	1	7/9/2016 2:38:09 AM	26286
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/9/2016 2:38:09 AM	26286
Toluene	ND	0.048		mg/Kg	1	7/9/2016 2:38:09 AM	26286
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2016 2:38:09 AM	26286
Xylenes, Total	ND	0.097		mg/Kg	1	7/9/2016 2:38:09 AM	26286
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	7/9/2016 2:38:09 AM	26286

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
	R	RPD outside accepted recovery limits	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#: 1607317

13-Jul-16

Client: Animas Environmental

Project: COPC SJ 28-7 261G

Sample ID	LCS-26309		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 26309		RunNo: 35548					
Prep Date:	7/8/2016		Analysis Date: 7/11/2016		SeqNo: 1100969		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	75.6	62.6	124			
Surr: DNOP	4.1		5.000		81.5	70	130			

Sample ID	MB-26309		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	26309		RunNo:	35548				
Prep Date:	7/8/2016		Analysis Date:	7/11/2016		SeqNo:	1100970		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	8.5		10.00		84.8	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 |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Client: Animas Environmental

Project: COPC SJ 28-7 261G

Sample ID	MB-26286		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	26286		RunNo:	35527				
Prep Date:	7/7/2016		Analysis Date:	7/8/2016		SeqNo:	1100342		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	1000		1000		102	80	120				

Sample ID	LCS-26286		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 26286		RunNo: 35527					
Prep Date:	7/7/2016		Analysis Date: 7/8/2016		SeqNo: 1100343		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1100		1000		112	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607317

13-Jul-16

Client: Animas Environmental

Project: COPC SJ 28-7 261G

Sample ID	MB-26286		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 26286		RunNo: 35527					
Prep Date:	7/7/2016		Analysis Date: 7/8/2016		SeqNo: 1100371		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	0.99		1.000		98.9	80	120			

Sample ID	LCS-26286		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 26286		RunNo: 35527					
Prep Date:	7/7/2016		Analysis Date: 7/8/2016		SeqNo: 1100372		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.6	75.3	123			
Toluene	0.96	0.050	1.000	0	95.8	80	124			
Ethylbenzene	0.98	0.050	1.000	0	98.3	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	97.6	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1607317

RptNo: 1

Received by/date:

AG

07/07/16

Logged By: Lindsay Mangin

7/7/2016 6:00:00 AM



Completed By: Lindsay Mangin

7/7/2016 2:12:38 PM



Reviewed By:



07/07/16

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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Client: Animas Environmental Services

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

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

2A/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other☐ EDD (Type) _____

ש. 100. מוטות וזוהר.

☒ Standard ☐ Rush

Project Name:

COPC SJ 28-7 #261G

Project #:

Project Manager:


E. Skyles

Sampler: ~~E. Skyles~~ C. Lammiman

On Ice: ☒ Yes ☐ No

Sample Temperature: 100

[illegible]

Date:	Time:	Relinquished by:
7/6/16	1808	

Date:	Time:	Relinquished by:
7/6/14	1940	Christine Walter

Received by:	Date	Time
Christine White	7/6/16	1808

Received by: [Signature] Date 07/07/16 Time 09:00

Remarks: Bill to Conoco Phillips
WO #: 21208997
Supervisor: Ervin Wyckoff
USERID: MCINNSK
Area: 7
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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 13, 2016

Emilee Skyles

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

RE: COPC SJ 28-7 261G

OrderNo.: 1607407

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/9/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: COPC SJ 28-7 261G

Collection Date: 7/8/2016 9:35:00 AM

Lab ID: 1607407-001

Matrix: MEOH (SOIL)

Received Date: 7/9/2016 11:08:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	430	10		mg/Kg	1	7/11/2016 10:52:41 AM	26317
Surr: DNOP	91.2	70-130		%Rec	1	7/11/2016 10:52:41 AM	26317
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	120	16		mg/Kg	5	7/11/2016 12:31:50 PM	26304
Surr: BFB	320	80-120	S	%Rec	5	7/11/2016 12:31:50 PM	26304
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.078		mg/Kg	5	7/11/2016 12:31:50 PM	26304
Toluene	ND	0.16		mg/Kg	5	7/11/2016 12:31:50 PM	26304
Ethylbenzene	0.26	0.16		mg/Kg	5	7/11/2016 12:31:50 PM	26304
Xylenes, Total	3.0	0.31		mg/Kg	5	7/11/2016 12:31:50 PM	26304
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	5	7/11/2016 12:31:50 PM	26304

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
	R	RPD outside accepted recovery limits	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-2**Project:** COPC SJ 28-7 261G**Collection Date:** 7/8/2016 9:39:00 AM**Lab ID:** 1607407-002**Matrix:** MEOH (SOIL)**Received Date:** 7/9/2016 11:08:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	100	10		mg/Kg	1	7/11/2016 11:14:41 AM	26317
Surr: DNOP	91.9	70-130		%Rec	1	7/11/2016 11:14:41 AM	26317
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	78	16		mg/Kg	5	7/11/2016 12:55:20 PM	26304
Surr: BFB	221	80-120	S	%Rec	5	7/11/2016 12:55:20 PM	26304
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.079		mg/Kg	5	7/11/2016 12:55:20 PM	26304
Toluene	ND	0.16		mg/Kg	5	7/11/2016 12:55:20 PM	26304
Ethylbenzene	0.18	0.16		mg/Kg	5	7/11/2016 12:55:20 PM	26304
Xylenes, Total	2.0	0.32		mg/Kg	5	7/11/2016 12:55:20 PM	26304
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	5	7/11/2016 12:55:20 PM	26304

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
	R	RPD outside accepted recovery limits	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#: 1607407

13-Jul-16

Client: Animas Environmental

Project: COPC SJ 28-7 261G

Sample ID	LCS-26317		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 26317		RunNo: 35547					
Prep Date:	7/11/2016		Analysis Date: 7/11/2016		SeqNo: 1100746		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	62.6	124			
Surr: DNOP	3.9		5.000		78.9	70	130			

Sample ID	MB-26317		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	26317		RunNo:	35547				
Prep Date:	7/11/2016		Analysis Date:	7/11/2016		SeqNo:	1100747		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	9.1		10.00		91.2	70	130				

Sample ID	LCS-26309		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 26309		RunNo: 35548					
Prep Date:	7/8/2016		Analysis Date: 7/11/2016		SeqNo: 1100969		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.5	70	130			

Sample ID	MB-26309		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 26309		RunNo: 35548					
Prep Date:	7/8/2016		Analysis Date: 7/11/2016		SeqNo: 1100970		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		84.8	70	130			

Qualifiers:

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S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607407

13-Jul-16

Client: Animas Environmental

Project: COPC SJ 28-7 261G

Sample ID	MB-26304	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	26304	RunNo:	35554					
Prep Date:	7/8/2016	Analysis Date:	7/11/2016	SeqNo:	1101250	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	1000		1000		101	80	120			

Sample ID	LCS-26304	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	26304	RunNo:	35554					
Prep Date:	7/8/2016	Analysis Date:	7/11/2016	SeqNo:	1101251	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	99.5	80	120			
Surr: BFB	1100		1000		108	80	120			

Qualifiers:

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ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607407

13-Jul-16

Client: Animas Environmental

Project: COPC SJ 28-7 261G

Sample ID	MB-26304		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 26304		RunNo: 35554					
Prep Date:	7/8/2016		Analysis Date: 7/11/2016		SeqNo: 1101270		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	0.99		1.000		98.8	80	120			

Sample ID	LCS-26304		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 26304		RunNo: 35554					
Prep Date:	7/8/2016		Analysis Date: 7/11/2016		SeqNo: 1101271		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.7	75.3	123			
Toluene	0.96	0.050	1.000	0	95.6	80	124			
Ethylbenzene	1.0	0.050	1.000	0	100	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	99.1	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1607407

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

7/9/2016 11:08:00 AM

Completed By: Lindsay Mangin

7/9/2016 12:00:40 PM

Reviewed By:

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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

ent: Animas Environmental Services

ent: Animas Environmental Services

Billing Address: 604 W. Pinon St

Farmington, NM 87401

one #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

/QC Package:

☐ Level 4 (Full Validation)

creditation:

NELAP ☒ Other _____

EDD (Type) _____

|Turn-Around Time:

☐ Standard ☒ Rush Same Day

Project Name:

COPC SJ 28-7 #261G

Project #:

Project Manager:

E. Skyles

Sampler: C. Lameman

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.3



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

e:	Time:	Relinquished by:	Received by:	Date	Time
7/10	1710	Cooper	Chad Wale	7/8/16	1710
s:	Time:	Relinquished by:	Received by:	Date	Time
8/16	1857	Must Wale	Chad Wale	8/16/16	1108

Remarks: Bill to Conoco Phillips
WO #: 21208997
Supervisor: Ervin Wyckoff
USERID: MCINNSK
Area: 7
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.