

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) 326-9786
Facility Name: San Juan 28-7 Unit 261M	Facility Type: Gas Well

Surface Owner Federal	Mineral Owner Federal	API No. 3003926540
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LOCATION OF RELEASE

Unit Letter F	Section 05	Township 27N	Range 07W	Feet from the 1510	North/South Line North	Feet from the 1475	East/West Line West	County Bio Arriba
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OIL CONS. DIV DIST. 3

Latitude **36.60686** Longitude **-107.60061**

FEB 18 2016

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release 125 bbls	Volume Recovered 12 bbls
Source of Release Tank - Vandalism	Date and Hour of Occurrence Unknown	Date and Hour of Discovery August 18, 2015 @ 11:00 a.m.
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 08/19/2015 @ 7:00 a.m. via phone & 3:00 p.m. via email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

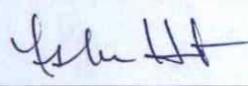
Describe Cause of Problem and Remedial Action Taken.*

Vandal opened the drain valve and moved the drain line from dumping into the pit o dumping into cribbing, releasing 124.7 total bbls of hydrocarbon and produced water into cribbing.

Describe Area Affected and Cleanup Action Taken.*

ConocoPhillips will assess the soil to determine a path forward for clean-up if necessary. Excavation was 44' x 55' x 12' Deep. Approximately 1075 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: 02/23/16	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: February 11, 2016 Phone: (505) 258-1607		

* Attach Additional Sheets If Necessary

NES 1523 147692

56



January 15, 2016

Lisa Hunter
ConocoPhillips
San Juan Business Unit
(505) 258-1607

OIL CONS. DIV DIST. 3

FEB 18 2016

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

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

Dear Ms. Hunter:

On August 25, September 2, and December 16, 18, and 22, 2015, 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 #261M, located in Rio Arriba County, New Mexico. The total release consisted of approximately 125 barrels (bbls) (approximately 116 bbls of condensate and 9 bbls of produced water) associated with vandalism of the below grade tank (BGT). The initial release assessment was completed by AES on August 25 and September 22, 2015, and the final excavation was completed by COPC contractors prior to AES' arrival at the location on December 22, 2015.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-7 #261M

Location – SE¼ NW¼, Section 5, T27N, R7W, Rio Arriba County, New Mexico

Well Head Latitude/Longitude – N36.60665 and W107.60055, respectively

Release Location Latitude/Longitude – N36.60686 and W107.60061, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, August 2015

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

1911 Main, Ste 200
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:** A below grade tank registration report form dated October 2015 reported the depth to groundwater as greater than 151 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash or tributary which discharges into Martin Canyon and ultimately to Carrizo Canyon Wash is located approximately 3,100 feet east of the location. (0 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of COPC on August 19, 2015, and on August 25, 2015, Emilee Skyles and Sam Glasses of AES initiated the release assessment field work. The assessment included collection and field sampling of six soil samples from one soil boring. Assessment activities were suspended, and AES recommended continued assessment with a drill rig or direct push hollow stem auger in order to determine the true vertical and horizontal extent of contamination.

On September 2, 2015, AES returned to the location with a direct push Geoprobe 6620-DT track rig with a hollow stem assembly for continuous sampling. A total of 28 soil samples from six soil borings were collected in and around the release area. Soil borings were terminated between 12 and 20 feet within a shale unit overlying sandstone. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3 and 4.

On December 16, 2015, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples from the walls and base of the excavation. Based on field and laboratory results, AES recommended continued excavation of the walls. On December 18 and 22, 2015, AES collected an additional four soil samples from the final walls. The area of the final excavation measured approximately 44 feet by 55 feet by 12 feet in depth. Sample locations and final excavation extents are presented on Figure 5.

2.0 Soil Sampling

A total of 34 discrete soil samples from seven borings (SB-1A, SB-1B, SB-2 through SB-6) and 9 composite samples (SC-1 through SC-9) were collected during the assessments and excavation clearances. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two samples (SB-1B and SB-4) collected during the initial assessment and nine composite samples (SC-1 through SC-9) 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 25 and September 2, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in SB-6 up to 5,771 ppm in SB-1B. Field TPH concentrations ranged 30.8 mg/kg in SB-3 up to 11,300 mg/kg in SB-1A.

On December 16, 2015, initial excavation field screening results for VOCs via OVM ranged from 1,216 ppm in SC-3 up to 4,169 ppm in SC-2. Field TPH concentrations varied from 196 mg/kg in SC-5 up to 4,900 mg/kg in SC-2. On December 18 and 22, 2015, final excavation field screening results for VOCs via OVM ranged from 21.8 ppm in SC-6 up to 2,121 ppm in SC-8. Field TPH concentrations varied from 21.8 mg/kg in SC-7 up to 149 mg/kg in SC-8. 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 #261M Release Assessment and Final Excavation
 August, September and December 2015

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
<i>NMOCD Action Level*</i>			100	5,000
SB-1A	8/25/15	2	3,396	8,050
		4	1,870	11,300
		6	2,156	10,900
		8	2,978	876
		10	3,178	2,200
		12	2,789	1,040
SB-1B	9/2/15	2	196	NA
		4	528	53.9
		6	3,947	NA
		8	3,868	1,940
		10	5,771	NA
		12	4,167	226
		14	1,700	NA
		16	4,764	526
SB-2	9/2/15	4	54.2	NA
		8	3,101	2,530
		12	4,829	NA
		16	3,818	678
		20	18.4	33.4
SB-3	9/2/15	4	3.2	NA
		8	4,356	36

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
<i>NMOCD Action Level*</i>			100	5,000
		12	21.5	30.8
		16	4.3	NA
SB-4	9/2/15	4	29.8	NA
		8	3,808	524
		12	4,630	NA
		16	2,154	NA
		4	51.6	NA
SB-5	9/2/15	8	45.6	NA
		12	1.0	44.9
		16	0.5	NA
		4	0.3	NA
SB-6	9/2/15	8	0.0	47.5
		12	0.6	NA
		SC-1	12/16/15	0 to 12
SC-2	12/16/15	0 to 12	4,169	4,900
SC-3	12/16/15	0 to 12	2,909	3,840
SC-4	12/16/15	0 to 12	3,975	2,520
SC-5	12/16/15	12	3,812	197
SC-6	12/18/15	0 to 12	21.8	42.1
SC-7	12/22/15	0 to 12	69.3	21.8
SC-8	12/18/15	0 to 12	2,121	149
SC-9	12/18/15	0 to 12	37.8	41.1

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 SB-1B and SB-4 were used to confirm field sampling results of the initial release assessment. Benzene concentrations were reported below laboratory detection limits in SB-4 and at 0.41 mg/kg in SB-1B, while total BTEX concentrations ranged from 1.68 mg/kg in SB-4 up to 28.7 mg/kg in SB-1B. TPH concentrations as GRO/DRO were reported from 14 mg/kg in SB-4 up to 610 mg/kg in SB-1B.

Laboratory analyses for SC-1 through SC-5 were used to confirm field sampling results from the initial excavation. Benzene and total BTEX concentrations ranged from 0.071 mg/kg and 1.86 mg/kg in SC-5 up to 3.6 mg/kg and 241 mg/kg in SC-1, respectively. TPH concentrations as GRO/DRO were reported from 57 mg/kg in SC-5 up to 2,450 mg/kg in SC-1.

Laboratory analyses for SC-6 through SC-9 were used to confirm field sampling results from the final excavation. Benzene concentrations were reported below laboratory detection limits in SC-6 (0.038 mg/kg), SC-7 (0.026 mg/kg), and SC-9 (0.036 mg/kg), and at 0.23 mg/kg in SC-8. Total BTEX concentrations ranged from below laboratory detection limits of 0.181 mg/kg in SC-9 up to 14.8 mg/kg in SC-8. TPH concentrations as GRO/DRO were reported from below laboratory detection limits in SC-7 and SC-9 (12.6 mg/kg and 13.2 mg/kg, respectively) up to 185 mg/kg in SC-8. 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 #261M Release Assessment and Final Excavation
 September and December 2015

<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>NMOCDC Action Level*</i>			10	50	5,000	
SB-1B	9/2/15	16	0.41	28.7	470	140
SB-4	9/2/15	16	<0.050	1.68	14	<9.6
SC-1	12/16/15	0 to 12	3.6	241	1,800	650
SC-2	12/16/15	0 to 12	1.9	118	920	400
SC-3	12/16/15	0 to 12	2.3	166	1,300	600
SC-4	12/16/15	0 to 12	1.6	116	940	510
SC-5	12/16/15	12	0.071	1.86	24	33
SC-6	12/18/15	0 to 12	<0.038	0.337	5.4	<10
SC-7	12/22/15	0 to 12	<0.026	0.249	<2.6	<10
SC-8	12/18/15	0 to 12	0.23	14.8	150	35
SC-9	12/18/15	0 to 12	<0.036	<0.181	<3.6	<9.6

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

3.0 Conclusions and Recommendations

On August 25 and September 2, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with a release of produced water and condensate at the San Juan 28-7 #261M. 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 above the NMOCD action level of 100 ppm VOCs and 5,000 mg/kg TPH were reported in SB-1 through SB-4. The highest VOC concentration was reported in SB-1B with 5,771 ppm, and the highest TPH concentration was reported in SB-1A with 11,300 mg/kg.

Laboratory analyses for SB-1B and SB-4 were used to confirm field sampling results. Benzene and total BTEX concentrations were reported below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively, in each sample. TPH concentrations as GRO/DRO were reported below the NMOCD action level of 5,000 mg/kg in each sample.

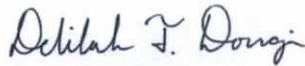
On December 16, 2015, the initial excavation of the area was completed. Field sampling results showed that VOC concentrations were above the applicable NMOCD action level for the walls and base of the excavation, and field TPH concentrations were all below the applicable NMOCD action level of 5,000 mg/kg. Laboratory analytical results reported benzene concentrations below NMOCD action levels in all samples (SC-1 through SC-5). Total BTEX concentrations were reported above the applicable NMOCD action levels in SC-1 through SC-4, but below the NMOCD action level in SC-5. Laboratory TPH concentrations as GRO/DRO were reported below the applicable NMOCD action level in all samples. AES recommended continued excavation of all four walls.

On December 18 and 22, 2015, final clearance of the excavation area was completed. Field sampling results for the final walls of the excavation showed that VOC concentrations were below applicable NMOCD action levels, with the exception of SC-8 (2,121 ppm), and all field TPH concentrations remained below the NMOCD action level. Laboratory benzene, total BTEX, and TPH values were reported below the applicable NMOCD action levels in all samples.

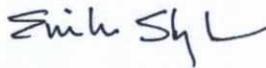
Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-7 #261M, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for the final sidewalls and base of the excavation. No further work is recommended.

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

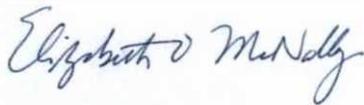
Sincerely,



Delilah T. Dougi
Geology Technician



Emilee Skyles
Geologist/Project Lead



Elizabeth McNally, PE

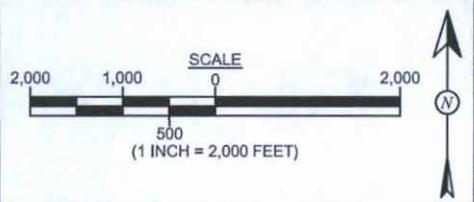
Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, August 2015
- Figure 3. Release Assessment Sample Locations and Results, August and September 2015
- Figure 4. Release Assessment Cross Sections and Soil Boring Locations, August and September 2015
- Figure 5. Excavation Sample Locations and Results, December 2015
- AES Field Sampling Report 082515
- AES Field Sampling Report 090215
- AES Field Sampling Report 121615
- AES Field Sampling Report 121815
- AES Field Sampling Report 122215
- Hall Laboratory Analytical Report 1509138
- Hall Laboratory Analytical Report 1512803
- Hall Laboratory Analytical Report 1512931
- Hall Laboratory Analytical Report 1512B06



DELGADITA MESA QUADRANGLE
 NEW MEXICO - RIO ARRIBA COUNTY
 PROVISIONAL EDITION 1985
 GOULD PASS QUADRANGLE
 NEW MEXICO - RIO ARRIBA COUNTY
 PROVISIONAL EDITION 1985

SAN JUAN 28-7 #261M



 <p>animas environmental services Farmington, NM • Durango, CO animasenvironmental.com</p>	DRAWN BY: S. Glasses	DATE DRAWN: December 15, 2015	FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP ConocoPhillips SAN JUAN 28-7 #261M SE¼ NW¼, SECTION 5, T27N, R7W RIO ARRIBA COUNTY, NEW MEXICO N36.60665, W107.60055
	REVISIONS BY: C. Lameman	DATE REVISED: December 15, 2015	
	CHECKED BY: E. Skyles	DATE CHECKED: December 15, 2015	
	APPROVED BY: E. McNally	DATE APPROVED: December 15, 2015	

LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



BGT
RELEASE LOCATION
N36.60686, W107.60061

PRODUCTION TANK

SEPARATOR

SAN JUAN 28-7 #261M WELLHEAD

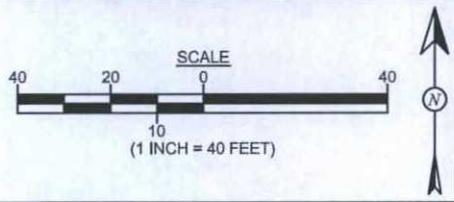


FIGURE 2

**AERIAL SITE MAP
AUGUST 2015**
ConocoPhillips
SAN JUAN 28-7 #261M
SE $\frac{1}{4}$ NW $\frac{1}{4}$, SECTION 5, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.60665, W107.60055



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environmental
services**
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DRAWN BY: S. Glasses	DATE DRAWN: December 15, 2015
REVISIONS BY: C. Lameman	DATE REVISED: December 15, 2015
CHECKED BY: E. Skyles	DATE CHECKED: December 15, 2015
APPROVED BY: E. McNally	DATE APPROVED: December 15, 2015

FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS AUGUST AND SEPTEMBER 2015
 ConocoPhillips
 SAN JUAN 28-7 #261M
 SE¼ NW¼, SECTION 5, T27N, R7W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.60665, W107.60055

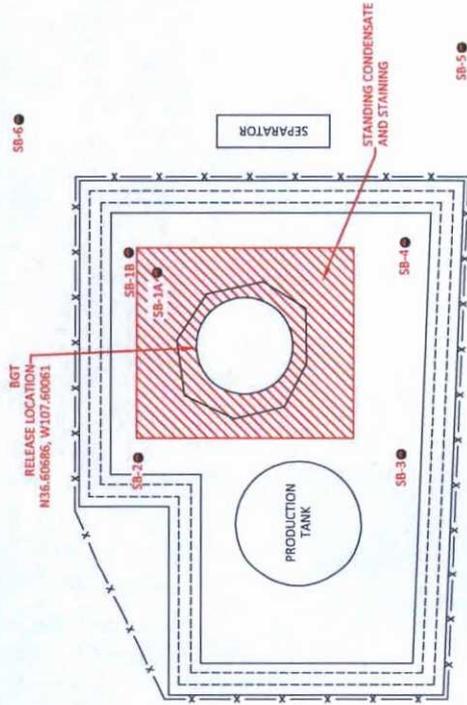
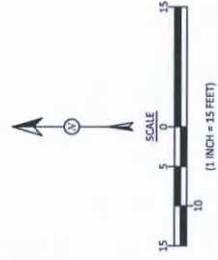


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DRAWN BY: D. Dougl	DATE DRAWN: August 26, 2015
REVISIONS BY: C. Lammeman	DATE REVISED: December 15, 2015
CHECKED BY: E. Skyles	DATE CHECKED: December 15, 2015
APPROVED BY: E. McNally	DATE APPROVED: December 15, 2015

LEGEND

- SOIL BORING LOCATION
- SECONDARY CONTAINMENT BERM
- x- FENCE



Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DFO (mg/kg)
NMOCED ACTION LEVEL						
SB-1B	9/2/15	16	0.41	28.7	470	140
SB-4	9/2/15	16	<0.050	1.68	14	<9.6
					50	5,000

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8260B AND 8015D.

SAN JUAN 28-7 #261M WELLHEAD

Field Sampling Results			
Sample ID	Date	Depth (ft)	TPH (mg/kg)
NMOCED ACTION LEVEL			
SB-1A	8/25/15	2	3,396
		4	1,870
		6	2,156
		8	2,978
		10	3,178
		12	2,789
		2	196
		4	528
		6	3,947
		8	3,868
		10	5,771
		12	4,167
		14	1,700
		16	4,764
		4	54.2
		8	3,101
		12	4,829
		16	3,818
		20	18.4
		4	3.2
		8	4,356
		12	21.5
		16	4.3
		4	29.8
		8	3,808
		12	4,630
		16	2,154
		4	51.6
		8	45.6
		12	1.0
		16	0.5
		4	0.3
		8	0.0
		12	0.6

NA - NOT ANALYZED

FIGURE 4

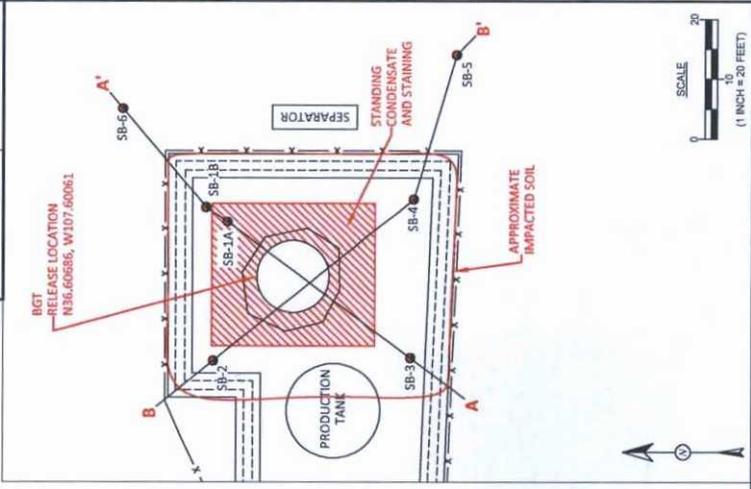
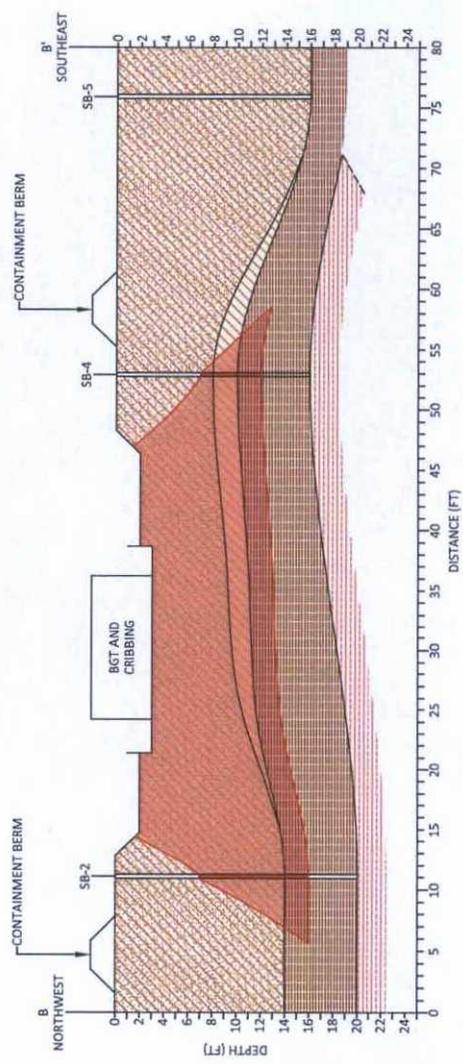
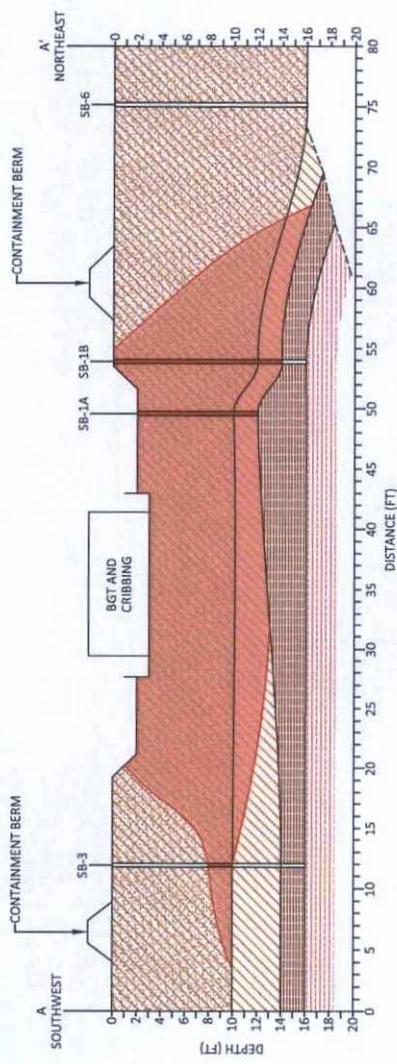
**RELEASE ASSESSMENT CROSS SECTIONS
AND SOIL BORING LOCATIONS
AUGUST AND SEPTEMBER 2015**

ConocoPhillips
SAN JUAN 28-7 #261M
SE&A, SECTIONS 5, T27N, R7W
RIO ARriba COUNTY, NEW MEXICO
N36.60665, W107.60055



DRAWN BY:	C. Lameman	DATE DRAWN:	September 11, 2015
REVISIONS BY:	C. Lameman	DATE REVISED:	December 15, 2015
CHECKED BY:	E. Skyles	DATE CHECKED:	December 15, 2015
APPROVED BY:	E. McNally	DATE APPROVED:	December 15, 2015

- LEGEND**
- SOIL BORING LOCATIONS
 - SECONDARY CONTAINMENT BERM
 - x- FENCE
 - ▨ SANDY CLAY
 - ▩ CLAY
 - ▧ SHALE
 - ▦ SANDSTONE
 - ▨ APPROXIMATE EXTENT OF IMPACTED SOIL (IN-PLACE 2,319 YD³)



NOT TO SCALE

FIGURE 5

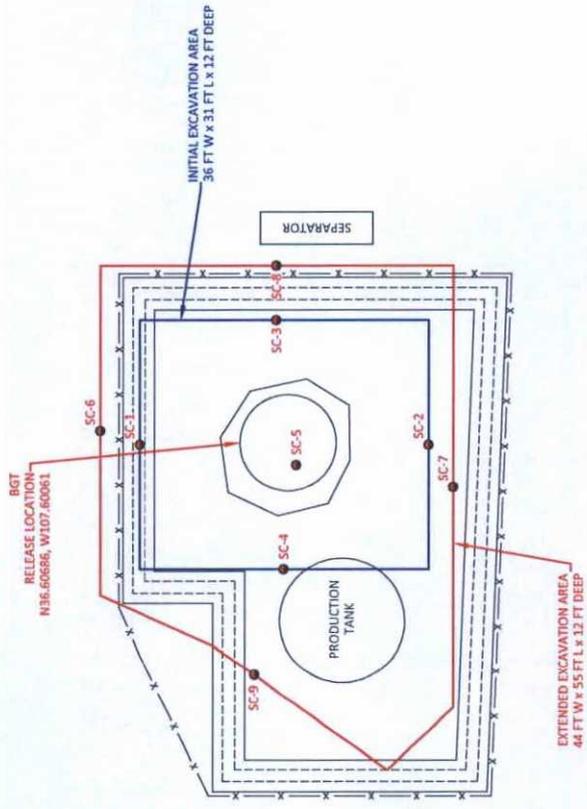
EXCAVATION SAMPLE LOCATIONS AND RESULTS DECEMBER 2015
 ConocoPhillips
 SAN JUAN 28-7 #261M
 SE4 NW¼, SECTION 5, T27N, R7W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.60665, W107.60055



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

DRAWN BY: C. Lameman
DATE DRAWN: December 22, 2015
REVISIONS BY: S. Glasses
DATE REVISED: January 5, 2016
CHECKED BY: E. Skyles
DATE CHECKED: January 5, 2016
APPROVED BY: E. McNally
DATE APPROVED: January 5, 2016

LEGEND
 ● SAMPLE LOCATIONS
 --- SECONDARY CONTAINMENT BERM
 -x- FENCE



Laboratory Analytical Results

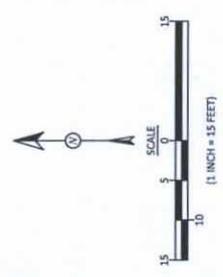
Sample ID	Date	Depth (ft)	Total Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
SC-1	12/16/15	0 to 12	3.6	241	1,800	650
SC-2	12/16/15	0 to 12	1.9	118	920	400
SC-3	12/16/15	0 to 12	2.3	166	1,300	600
SC-4	12/16/15	0 to 12	1.6	116	940	510
SC-5	12/16/15	12	0.071	1.86	24	33
SC-6	12/18/15	0 to 12	<0.038	0.337	5.4	<10
SC-7	12/22/15	0 to 12	0.23	0.249	<2.6	<10
SC-8	12/18/15	0 to 12	<0.036	14.8	150	35
SC-9	12/18/15	0 to 12	<0.036	<0.181	<3.5	<9.6

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8260B AND 8015D.

Field Sampling Results

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
SC-1	12/16/15	0 to 12	3,784	4,390
SC-2	12/16/15	0 to 12	4,169	4,900
SC-3	12/16/15	0 to 12	2,909	3,840
SC-4	12/16/15	0 to 12	3,975	2,520
SC-5	12/16/15	12	3,812	197
SC-6	12/18/15	0 to 12	21.8	42.1
SC-7	12/22/15	0 to 12	69.3	21.8
SC-8	12/18/15	0 to 12	2,121	149
SC-9	12/18/15	0 to 12	37.8	41.1

NA - NOT ANALYZED



SAN JUAN 28-7 #261M WELLHEAD

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261M

Date: 8/25/2015

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 (A) @ 2'	8/25/2015	8:55	3,396	8,048	9:23	200.0	10	EMS
SB-1 (A) @ 4'	8/25/2015	9:13	1,870	11,305	9:34	200.0	10	EMS
SB-1 (A) @ 6'	8/25/2015	9:24	2,156	10,861	9:50	200.0	10	EMS
SB-1 (A) @ 8'	8/25/2015	9:35	2,978	876	9:54	20.0	1	EMS
SB-1 (A) @ 10'	8/25/2015	10:12	3,178	2,203	10:22	20.0	1	EMS
SB-1 (A) @ 12'	8/25/2015	10:21	2,789	1,038	10:25	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: *Erin SLY*

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261M

Date: 9/2/2015

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 (B) @ 2'	9/2/2015	9:17	196	Not Analyzed for TPH					
SB-1 (B) @ 4'	9/2/2015	9:19	528	53.9	9:59	20.0	1	DTD	
SB-1 (B) @ 6'	9/2/2015	9:21	3,947	Not Analyzed for TPH					
SB-1 (B) @ 8'	9/2/2015	9:22	3,868	1,943	10:06	20.0	1	DTD	
SB-1 (B) @ 10'	9/2/2015	9:23	5,771	Not Analyzed for TPH					
SB-1 (B) @ 12'	9/2/2015	9:25	4,167	226	10:18	20.0	1	DTD	
SB-1 (B) @ 14'	9/2/2015	9:24	1,700	Not Analyzed for TPH					
SB-1 (B) @ 16'	9/2/2015	9:31	4,764	526	10:24	20.0	1	DTD	
SB-2 @ 4'	9/2/2015	9:55	54.2	Not Analyzed for TPH					
SB-2 @ 8'	9/2/2015	10:00	3,101	2,533	10:58	20.0	1	DTD	
SB-2 @ 12'	9/2/2015	10:04	4,829	Not Analyzed for TPH					
SB-2 @ 16'	9/2/2015	10:09	3,818	678	11:03	20.0	1	DTD	
SB-2 @ 20'	9/2/2015	10:13	18.4	33.4	11:08	20.0	1	DTD	
SB-3 @ 4'	9/2/2015	10:39	3.2	Not Analyzed for TPH					

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-3 @ 8'	9/2/2015	10:42	4,356	36	11:37	20.0	1	DTD
SB-3 @ 12'	9/2/2015	10:45	21.5	30.8	11:41	20.0	1	DTD
SB-3 @ 16'	9/2/2015	10:49	4.3	Not Analyzed for TPH				
SB-4 @ 4'	9/2/2015	11:05	29.8	Not Analyzed for TPH				
SB-4 @ 8'	9/2/2015	11:10	3,808	524	11:46	20.0	1	DTD
SB-4 @ 12'	9/2/2015	11:12	4,630	Not Analyzed for TPH				
SB-4 @ 16'	9/2/2015	11:17	2,154	Not Analyzed for TPH				
SB-5 @ 4'	9/2/2015	12:12	51.6	Not Analyzed for TPH				
SB-5 @ 8'	9/2/2015	12:15	45.6	Not Analyzed for TPH				
SB-5 @ 12'	9/2/2015	12:22	1.0	45	12:41	20.0	1	DTD
SB-5 @ 16'	9/2/2015	12:29	0.5	Not Analyzed for TPH				
SB-6 @ 4'	9/2/2015	12:42	0.3	Not Analyzed for TPH				
SB-6 @ 8'	9/2/2015	12:44	0.0	48	13:00	20.0	1	DTD
SB-6 @ 12'	9/2/2015	--	0.6	Not Analyzed for TPH				

Total Petroleum Hydrocarbons - USEPA 418.1

DF Dilution Factor
 NA Not Analyzed
 PQL Practical Quantitation Limit

Analyst: *Delilah J. Donaji*

*Field TPH concentrations recorded may be below PQL.

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261M

Date: 12/16/2015

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	12/16/2015	13:55	North Wall	3,784	4,390	14:19	200.0	10	CL
SC-2	12/16/2015	14:00	South Wall	4,169	4,900	14:34	200.0	10	CL
SC-3	12/16/2015	10:45	East Wall	2,909	3,838	12:01	200.0	10	CL
SC-4	12/16/2015	14:25	West Wall	3,975	2,520	14:42	20.0	1	CL
SC-5	12/16/2015	10:55	Base	3,812	197	12:16	20.0	1	CL

Total Petroleum Hydrocarbons - USEPA 418.1

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Analyst: *C. White*

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261M

Date: 12/18/2015

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-6	12/18/2015	12:22	North Wall	21.8	42.1	12:33	20.0	1	EMS
SC-8	12/18/2015	12:39	East Wall	2,121	149	12:57	20.0	1	EMS
SC-9	12/18/2015	14:19	West Wall	37.8	41.1	14:32	20.0	1	EMS

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Siw Shyl*

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 28-7 #261M

Date: 12/22/2015

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-7	12/22/2015	10:11	South Wall	69.3	21.8	10:26	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: *C. Phillips*



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

September 10, 2015

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

RE: COPC SJ 28-7 #261M

OrderNo.: 1509138

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/3/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SB-1B @ 16'

Project: COPC SJ 28-7 #261M

Collection Date: 9/2/2015 9:31:00 AM

Lab ID: 1509138-001

Matrix: SOIL

Received Date: 9/3/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	470	50		mg/Kg	10	9/8/2015 12:17:40 PM	21127
Surr: BFB	103	70-130		%REC	10	9/8/2015 12:17:40 PM	21127
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	140	9.7		mg/Kg	1	9/4/2015 1:42:49 PM	21123
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/4/2015 1:42:49 PM	21123
Surr: DNOP	103	57.9-140		%REC	1	9/4/2015 1:42:49 PM	21123
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	0.41	0.25		mg/Kg	10	9/8/2015 12:17:40 PM	21127
Toluene	6.9	0.50		mg/Kg	10	9/8/2015 12:17:40 PM	21127
Ethylbenzene	1.4	0.50		mg/Kg	10	9/8/2015 12:17:40 PM	21127
Xylenes, Total	20	1.0		mg/Kg	10	9/8/2015 12:17:40 PM	21127
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	10	9/8/2015 12:17:40 PM	21127
Surr: 4-Bromofluorobenzene	101	70-130		%REC	10	9/8/2015 12:17:40 PM	21127
Surr: Dibromofluoromethane	110	70-130		%REC	10	9/8/2015 12:17:40 PM	21127
Surr: Toluene-d8	94.1	70-130		%REC	10	9/8/2015 12:17:40 PM	21127

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	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1509138

Date Reported: 9/10/2015

CLIENT: Animas Environmental

Client Sample ID: SB-4 @ 16'

Project: COPC SJ 28-7 #261M

Collection Date: 9/2/2015 11:17:00 AM

Lab ID: 1509138-002

Matrix: SOIL

Received Date: 9/3/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	14	5.0		mg/Kg	1	9/8/2015 12:45:10 PM	21127
Surr: BFB	106	70-130		%REC	1	9/8/2015 12:45:10 PM	21127
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/4/2015 2:10:17 PM	21123
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/4/2015 2:10:17 PM	21123
Surr: DNOP	101	57.9-140		%REC	1	9/4/2015 2:10:17 PM	21123
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	9/8/2015 12:45:10 PM	21127
Toluene	0.51	0.050		mg/Kg	1	9/8/2015 12:45:10 PM	21127
Ethylbenzene	0.072	0.050		mg/Kg	1	9/8/2015 12:45:10 PM	21127
Xylenes, Total	1.1	0.099		mg/Kg	1	9/8/2015 12:45:10 PM	21127
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	1	9/8/2015 12:45:10 PM	21127
Surr: 4-Bromofluorobenzene	93.6	70-130		%REC	1	9/8/2015 12:45:10 PM	21127
Surr: Dibromofluoromethane	117	70-130		%REC	1	9/8/2015 12:45:10 PM	21127
Surr: Toluene-d8	93.9	70-130		%REC	1	9/8/2015 12:45:10 PM	21127

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	

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1509138
 10-Sep-15

Client: Animas Environmental
Project: COPC SJ 28-7 #261M

Sample ID MB-21123	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 21123		RunNo: 28658							
Prep Date: 9/3/2015	Analysis Date: 9/4/2015		SeqNo: 868356				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	10		10.00		99.5	57.9	140			

Sample ID LCS-21123	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 21123		RunNo: 28658							
Prep Date: 9/3/2015	Analysis Date: 9/4/2015		SeqNo: 868359				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	57.4	139			
Surr: DNOP	5.1		5.000		102	57.9	140			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1509138
 10-Sep-15

Client: Animas Environmental
Project: COPC SJ 28-7 #261M

Sample ID	mb-21127		SampType:	MBLK		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	PBS		Batch ID:	21127		RunNo:	28679				
Prep Date:	9/3/2015		Analysis Date:	9/4/2015		SeqNo:	868766		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.9	70	130				
Surr: Dibromofluoromethane	0.60		0.5000		121	70	130				
Surr: Toluene-d8	0.49		0.5000		98.3	70	130				

Sample ID	ics-21127		SampType:	LCS		TestCode:	EPA Method 8260B: Volatiles Short List				
Client ID:	LCSS		Batch ID:	21127		RunNo:	28679				
Prep Date:	9/3/2015		Analysis Date:	9/4/2015		SeqNo:	868768		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.050	1.000	0	111	70	130				
Toluene	0.98	0.050	1.000	0	98.4	70	130				
Ethylbenzene	1.0	0.050	1.000	0	100	70	130				
Xylenes, Total	3.0	0.10	3.000	0	99.6	70	130				
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130				
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.8	70	130				
Surr: Dibromofluoromethane	0.60		0.5000		119	70	130				
Surr: Toluene-d8	0.48		0.5000		95.7	70	130				

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1509138

10-Sep-15

Client: Animas Environmental
Project: COPC SJ 28-7 #261M

Sample ID	mb-21127	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	21127	RunNo:	28679					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	869145	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	570		500.0		115	70	130			

Sample ID	lcs-21127	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	21127	RunNo:	28679					
Prep Date:	9/3/2015	Analysis Date:	9/4/2015	SeqNo:	869146	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	5.0	25.00	0	71.6	70	123			
Surr: BFB	500		500.0		99.7	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 | |

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1509138

RcptNo: 1

Received by/date: CM 09/03/15

Logged By: Anne Thorne 9/3/2015 7:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 9/3/2015 *Anne Thorne*

Reviewed By: ~~_____~~ 09/03/15

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp. °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Service, LLC

Mailing Address: 604 W. Pinon St

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Turn-Around Time:

Standard Rush

Project Name:

COPC SJ 28-7 #261M

Project #:

Project Manager:

E. Skyles

Sampler: E. Skyles / D. Dougl

Online No

Sample Temp

Date Time Matrix Sample Request ID

9/2/15 9:31 Soil SB-1B e16'

9/2/15 11:17 Soil SB-4 e16'

Container Type and #

1-4oz

1-4oz

Preservative Type

cool

cool

HEAL No.

2001

2002

Date: 9/2/15

Time: 11:53

Relinquished by:

E. Skyles

Date: 9/2/15

Time: 18:04

Relinquished by:

M. T. Whitten

Received by:

Christy Wheeler

Received by:

[Signature]

Date: 9/2/15

Time: 16:38

Date: 09/15/15

Time: 07:00

Remarks: Bill To Conoco Phillips

WC: 20980054

Area: 23

Area Supervisor: Greg Dunn

User/Approver: BENALE

Ordered by: Lindsay Dumas

BTEX - 8021B TPH - EPA 8015B (GRO/DRO/MRO) Chlorides - 300.0

Air Bubbles (Y or N)

Analysis Request



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



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

December 18, 2015

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

RE: COPC San Juan 28-7 #261M

OrderNo.: 1512803

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/17/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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 light blue circular stamp.

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 San Juan 28-7 #261M

Collection Date: 12/16/2015 1:55:00 PM

Lab ID: 1512803-001

Matrix: MEOH (SOIL)

Received Date: 12/17/2015 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	650	9.8		mg/Kg	1	12/17/2015 10:38:51 AM	22844
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	12/17/2015 10:38:51 AM	22844
Surr: DNOP	103	70-130		%REC	1	12/17/2015 10:38:51 AM	22844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1800	270		mg/Kg	100	12/17/2015 10:53:41 AM	22829
Surr: BFB	138	66.2-112	S	%REC	100	12/17/2015 10:53:41 AM	22829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	3.6	1.3		mg/Kg	100	12/17/2015 10:53:41 AM	22829
Toluene	74	2.7		mg/Kg	100	12/17/2015 10:53:41 AM	22829
Ethylbenzene	13	2.7		mg/Kg	100	12/17/2015 10:53:41 AM	22829
Xylenes, Total	150	5.3		mg/Kg	100	12/17/2015 10:53:41 AM	22829
Surr: 4-Bromofluorobenzene	139	80-120	S	%REC	100	12/17/2015 10:53:41 AM	22829

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	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COPC San Juan 28-7 #261M

Collection Date: 12/16/2015 2:00:00 PM

Lab ID: 1512803-002

Matrix: MEOH (SOIL)

Received Date: 12/17/2015 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	400	9.8		mg/Kg	1	12/17/2015 11:22:13 AM	22844
Motor Oil Range Organics (MRO)	74	49		mg/Kg	1	12/17/2015 11:22:13 AM	22844
Surr: DNOP	92.5	70-130		%REC	1	12/17/2015 11:22:13 AM	22844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	920	120		mg/Kg	50	12/17/2015 11:18:07 AM	22829
Surr: BFB	146	66.2-112	S	%REC	50	12/17/2015 11:18:07 AM	22829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	1.9	0.61		mg/Kg	50	12/17/2015 11:18:07 AM	22829
Toluene	34	1.2		mg/Kg	50	12/17/2015 11:18:07 AM	22829
Ethylbenzene	6.4	1.2		mg/Kg	50	12/17/2015 11:18:07 AM	22829
Xylenes, Total	76	2.5		mg/Kg	50	12/17/2015 11:18:07 AM	22829
Surr: 4-Bromofluorobenzene	131	80-120	S	%REC	50	12/17/2015 11:18:07 AM	22829

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	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: COPC San Juan 28-7 #261M

Collection Date: 12/16/2015 10:45:00 AM

Lab ID: 1512803-003

Matrix: MEOH (SOIL)

Received Date: 12/17/2015 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	600	10		mg/Kg	1	12/17/2015 12:05:39 PM	22844
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	12/17/2015 12:05:39 PM	22844
Surr: DNOP	94.1	70-130		%REC	1	12/17/2015 12:05:39 PM	22844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1300	260		mg/Kg	100	12/17/2015 11:42:49 AM	22829
Surr: BFB	127	66.2-112	S	%REC	100	12/17/2015 11:42:49 AM	22829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.3	1.3		mg/Kg	100	12/17/2015 11:42:49 AM	22829
Toluene	45	2.6		mg/Kg	100	12/17/2015 11:42:49 AM	22829
Ethylbenzene	9.0	2.6		mg/Kg	100	12/17/2015 11:42:49 AM	22829
Xylenes, Total	110	5.3		mg/Kg	100	12/17/2015 11:42:49 AM	22829
Surr: 4-Bromofluorobenzene	127	80-120	S	%REC	100	12/17/2015 11:42:49 AM	22829

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	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: COPC San Juan 28-7 #261M

Collection Date: 12/16/2015 2:25:00 PM

Lab ID: 1512803-004

Matrix: MEOH (SOIL)

Received Date: 12/17/2015 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	510	9.8		mg/Kg	1	12/17/2015 12:27:13 PM	22844
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	12/17/2015 12:27:13 PM	22844
Surr: DNOP	93.0	70-130		%REC	1	12/17/2015 12:27:13 PM	22844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	940	250		mg/Kg	100	12/17/2015 12:07:22 PM	22829
Surr: BFB	125	66.2-112	S	%REC	100	12/17/2015 12:07:22 PM	22829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	1.6	1.3		mg/Kg	100	12/17/2015 12:07:22 PM	22829
Toluene	31	2.5		mg/Kg	100	12/17/2015 12:07:22 PM	22829
Ethylbenzene	6.7	2.5		mg/Kg	100	12/17/2015 12:07:22 PM	22829
Xylenes, Total	77	5.1		mg/Kg	100	12/17/2015 12:07:22 PM	22829
Surr: 4-Bromofluorobenzene	129	80-120	S	%REC	100	12/17/2015 12:07:22 PM	22829

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	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC San Juan 28-7 #261M

Collection Date: 12/16/2015 10:55:00 AM

Lab ID: 1512803-005

Matrix: MEOH (SOIL)

Received Date: 12/17/2015 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	33	10		mg/Kg	1	12/17/2015 12:49:03 PM	22844
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2015 12:49:03 PM	22844
Surr: DNOP	91.3	70-130		%REC	1	12/17/2015 12:49:03 PM	22844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	24	6.3		mg/Kg	2	12/17/2015 12:31:51 PM	22829
Surr: BFB	158	66.2-112	S	%REC	2	12/17/2015 12:31:51 PM	22829
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.071	0.032		mg/Kg	2	12/17/2015 12:31:51 PM	22829
Toluene	0.38	0.063		mg/Kg	2	12/17/2015 12:31:51 PM	22829
Ethylbenzene	0.11	0.063		mg/Kg	2	12/17/2015 12:31:51 PM	22829
Xylenes, Total	1.3	0.13		mg/Kg	2	12/17/2015 12:31:51 PM	22829
Surr: 4-Bromofluorobenzene	142	80-120	S	%REC	2	12/17/2015 12:31:51 PM	22829

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	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512803

18-Dec-15

Client: Animas Environmental
Project: COPC San Juan 28-7 #261M

Sample ID MB-22794	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 22794	RunNo: 30909								
Prep Date: 12/14/2015	Analysis Date: 12/17/2015	SeqNo: 945045						Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.2		10.00		71.5	70	130			

Sample ID MB-22844	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 22844	RunNo: 30908								
Prep Date: 12/17/2015	Analysis Date: 12/17/2015	SeqNo: 945048						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	9.5		10.00		95.4	70	130			

Sample ID LCS-22844	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 22844	RunNo: 30908								
Prep Date: 12/17/2015	Analysis Date: 12/17/2015	SeqNo: 945049						Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	65.8	136			
Surr: DNOP	4.5		5.000		89.2	70	130			

Sample ID LCSS-22794	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 22794	RunNo: 30908								
Prep Date: 12/14/2015	Analysis Date: 12/17/2015	SeqNo: 945328						Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.1	70	130			

Sample ID 1512803-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SC-1	Batch ID: 22844	RunNo: 30908								
Prep Date: 12/17/2015	Analysis Date: 12/17/2015	SeqNo: 945431						Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	810	9.8	49.12	651.5	315	31.2	162			S
Surr: DNOP	5.1		4.912		104	70	130			

Sample ID 1512803-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SC-1	Batch ID: 22844	RunNo: 30908								
Prep Date: 12/17/2015	Analysis Date: 12/17/2015	SeqNo: 945432						Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	960	10	49.95	651.5	620	31.2	162	17.6	31.7	S

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512803

18-Dec-15

Client: Animas Environmental
Project: COPC San Juan 28-7 #261M

Sample ID	1512803-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	22844	RunNo:	30908					
Prep Date:	12/17/2015	Analysis Date:	12/17/2015	SeqNo:	945432	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		4.995		101	70	130	0	0	

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1512803
 18-Dec-15

Client: Animas Environmental
Project: COPC San Juan 28-7 #261M

Sample ID MB-22829	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 22829		RunNo: 30919							
Prep Date: 12/16/2015	Analysis Date: 12/17/2015		SeqNo: 945758		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	810		1000		80.8	66.2	112			

Sample ID LCS-22829	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 22829		RunNo: 30919							
Prep Date: 12/16/2015	Analysis Date: 12/17/2015		SeqNo: 945759		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	79.6	122			
Surr: BFB	1000		1000		102	66.2	112			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1512803
 18-Dec-15

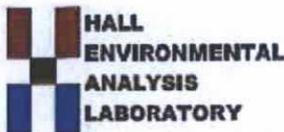
Client: Animas Environmental
Project: COPC San Juan 28-7 #261M

Sample ID MB-22829	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 22829		RunNo: 30919							
Prep Date: 12/16/2015	Analysis Date: 12/17/2015		SeqNo: 945772		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID LCS-22829	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 22829		RunNo: 30919							
Prep Date: 12/16/2015	Analysis Date: 12/17/2015		SeqNo: 945773		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	97.0	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		123	80	120			S

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



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: 1512803

RcptNo: 1

Received by/date:

Logged By:

Completed By:

Reviewed By:

[Signature]
 12/17/15
 Ashley Gallegos 12/17/2015 7:45:00 AM
 Ashley Gallegos 12/17/2015 8:40:19 AM
[Signature]
 12/17/15

[Signature]
[Signature]

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: Ammas Environmental Services
 Mailing Address: 604 W. Pines St
Farmington NM 87401
 Phone #: 505-504-2281
 email or Fax#: estyles@ammaseenvironmental.com
 QA/QC Package: Level 4 (Full Validation)
 Standard Other _____
 Accreditation NELAP Other _____
 EDD (Type) _____

Turn-Around Time: _____
 Standard Rush Same Day
 Project Name: COPC San Juan 28-7 #261M
 Project #: _____
 Project Manager: Emilee Skyles
 Sampler: _____
 On Ice: Yes No
 Sample Temperature: 1.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
2-16-15	1355	S.s.l	SC-1	1-Hexic 2-Hexic Medist	Cool Medist	1512803
	1400		SC-2			-001
	1415		SC-3			-002
	1425		SC-4			-003
	1455		SC-5			-004
						-005

Date: 12-16-15 Time: 1739 Relinquished by: [Signature]
 Date: 12/16/15 Time: 1804 Relinquished by: [Signature]
 Received by: [Signature] Date: 12/16/15 Time: 1739
 Received by: [Signature] Date: 12/17/15 Time: 0745

Analysis Request

BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
+	+	+	+	+							
+	+	+	+	+							
+	+	+	+	+							
+	+	+	+	+							
+	+	+	+	+							

Remarks: Bill to ConocoPhillips
WB#: 21071018
Supervisor: Erin Wychoff
Approver: MCINNSK
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**

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



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

December 22, 2015

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

RE: CoPC SJ 28-7 #261M

OrderNo.: 1512931

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/19/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1512931

Date Reported: 12/22/2015

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project: CoPC SJ 28-7 #261M

Collection Date: 12/18/2015 12:22:00 PM

Lab ID: 1512931-001

Matrix: MEOH (SOIL)

Received Date: 12/19/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2015 11:31:25 AM	22892
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/21/2015 11:31:25 AM	22892
Surr: DNOP	153	70-130	S	%REC	1	12/21/2015 11:31:25 AM	22892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.4	3.8		mg/Kg	1	12/21/2015 9:44:45 AM	22857
Surr: BFB	97.6	66.2-112		%REC	1	12/21/2015 9:44:45 AM	22857
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.038		mg/Kg	1	12/21/2015 9:44:45 AM	22857
Toluene	0.057	0.038		mg/Kg	1	12/21/2015 9:44:45 AM	22857
Ethylbenzene	ND	0.038		mg/Kg	1	12/21/2015 9:44:45 AM	22857
Xylenes, Total	0.28	0.076		mg/Kg	1	12/21/2015 9:44:45 AM	22857
Surr: 4-Bromofluorobenzene	123	80-120	S	%REC	1	12/21/2015 9:44:45 AM	22857

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	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-8

Project: CoPC SJ 28-7 #261M

Collection Date: 12/18/2015 12:39:00 PM

Lab ID: 1512931-002

Matrix: MEOH (SOIL)

Received Date: 12/19/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	35	9.7		mg/Kg	1	12/21/2015 12:58:24 PM	22892
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2015 12:58:24 PM	22892
Surr: DNOP	98.7	70-130		%REC	1	12/21/2015 12:58:24 PM	22892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	150	3.5		mg/Kg	1	12/21/2015 10:09:26 AM	22857
Surr: BFB	567	66.2-112	S	%REC	1	12/21/2015 10:09:26 AM	22857
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.23	0.035		mg/Kg	1	12/21/2015 10:09:26 AM	22857
Toluene	3.7	0.17		mg/Kg	5	12/21/2015 10:58:34 AM	22857
Ethylbenzene	0.89	0.035		mg/Kg	1	12/21/2015 10:09:26 AM	22857
Xylenes, Total	10	0.35		mg/Kg	5	12/21/2015 10:58:34 AM	22857
Surr: 4-Bromofluorobenzene	189	80-120	S	%REC	1	12/21/2015 10:09:26 AM	22857

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	

Analytical Report

Lab Order 1512931

Date Reported: 12/22/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-9

Project: CoPC SJ 28-7 #261M

Collection Date: 12/18/2015 2:19:00 PM

Lab ID: 1512931-003

Matrix: MEOH (SOIL)

Received Date: 12/19/2015 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/21/2015 12:14:56 PM	22892
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2015 12:14:56 PM	22892
Surr: DNOP	103	70-130		%REC	1	12/21/2015 12:14:56 PM	22892
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	12/21/2015 10:33:50 AM	22857
Surr: BFB	93.7	66.2-112		%REC	1	12/21/2015 10:33:50 AM	22857
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.036		mg/Kg	1	12/21/2015 10:33:50 AM	22857
Toluene	ND	0.036		mg/Kg	1	12/21/2015 10:33:50 AM	22857
Ethylbenzene	ND	0.036		mg/Kg	1	12/21/2015 10:33:50 AM	22857
Xylenes, Total	ND	0.073		mg/Kg	1	12/21/2015 10:33:50 AM	22857
Surr: 4-Bromofluorobenzene	119	80-120		%REC	1	12/21/2015 10:33:50 AM	22857

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	

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1512931
 22-Dec-15

Client: Animas Environmental
Project: CoPC SJ 28-7 #261M

Sample ID MB-22892	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 22892		RunNo: 30986							
Prep Date: 12/21/2015	Analysis Date: 12/21/2015		SeqNo: 947716		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	9.9		10.00		98.6	70	130			

Sample ID LCS-22892	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 22892		RunNo: 30986							
Prep Date: 12/21/2015	Analysis Date: 12/21/2015		SeqNo: 947717		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	121	65.8	136			
Surr: DNOP	5.4		5.000		109	70	130			

Sample ID 1512931-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: SC-6	Batch ID: 22892		RunNo: 30986							
Prep Date: 12/21/2015	Analysis Date: 12/21/2015		SeqNo: 947756		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.40	4.427	106	31.2	162			
Surr: DNOP	5.0		5.040		98.5	70	130			

Sample ID 1512931-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: SC-6	Batch ID: 22892		RunNo: 30986							
Prep Date: 12/21/2015	Analysis Date: 12/21/2015		SeqNo: 947757		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.86	4.427	113	31.2	162	7.22	31.7	
Surr: DNOP	5.5		5.086		108	70	130	0	0	

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1512931
 22-Dec-15

Client: Animas Environmental
Project: CoPC SJ 28-7 #261M

Sample ID MB-22857	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 22857		RunNo: 30983							
Prep Date: 12/17/2015	Analysis Date: 12/21/2015		SeqNo: 947868		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.2	66.2	112			

Sample ID LCS-22857	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 22857		RunNo: 30983							
Prep Date: 12/17/2015	Analysis Date: 12/21/2015		SeqNo: 947869		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	105	79.6	122			
Surr: BFB	950		1000		94.9	66.2	112			

Sample ID MB-22878	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 22878		RunNo: 30983							
Prep Date: 12/18/2015	Analysis Date: 12/21/2015		SeqNo: 947878		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	790		1000		79.2	66.2	112			

Sample ID LCS-22878	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 22878		RunNo: 30983							
Prep Date: 12/18/2015	Analysis Date: 12/21/2015		SeqNo: 947879		Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	66.2	112			

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1512931
 22-Dec-15

Client: Animas Environmental
Project: CoPC SJ 28-7 #261M

Sample ID	MB-22857	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	22857	RunNo:	30983					
Prep Date:	12/17/2015	Analysis Date:	12/21/2015	SeqNo:	947896	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		121	80	120			S

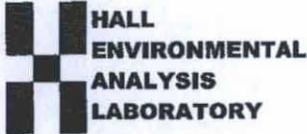
Sample ID	LCS-22857	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	22857	RunNo:	30983					
Prep Date:	12/17/2015	Analysis Date:	12/21/2015	SeqNo:	947897	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.6	80	120			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	80	120			

Sample ID	MB-22878	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	22878	RunNo:	30983					
Prep Date:	12/18/2015	Analysis Date:	12/21/2015	SeqNo:	947906	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-22878	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	22878	RunNo:	30983					
Prep Date:	12/18/2015	Analysis Date:	12/21/2015	SeqNo:	947907	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3		1.000		132	80	120			S

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



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: **1512931**

RcptNo: **1**

Received by/date:

LM

12/19/15

Logged By: **Lindsay Mangin**

12/19/2015 9:40:00 AM

Judy Mangin

Completed By: **Lindsay Mangin**

12/21/2015 8:52:04 AM

Judy Mangin

Reviewed By:

JM

12/21/15

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			



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

January 04, 2016

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

RE: COPC San Juan 28-7 #261M

OrderNo.: 1512B06

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/23/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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 light blue horizontal line.

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 San Juan 28-7 #261M **Collection Date:** 12/22/2015 10:11:00 AM
Lab ID: 1512B06-001 **Matrix:** MEOH (SOIL) **Received Date:** 12/23/2015 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/31/2015 9:48:29 AM	22991
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2015 9:48:29 AM	22991
Surr: DNOP	86.2	70-130		%REC	1	12/31/2015 9:48:29 AM	22991
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.6		mg/Kg	1	12/30/2015 2:59:28 AM	22972
Surr: BFB	84.4	66.2-112		%REC	1	12/30/2015 2:59:28 AM	22972
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	12/30/2015 2:59:28 AM	22972
Toluene	0.089	0.026		mg/Kg	1	12/30/2015 2:59:28 AM	22972
Ethylbenzene	ND	0.026		mg/Kg	1	12/30/2015 2:59:28 AM	22972
Xylenes, Total	0.16	0.052		mg/Kg	1	12/30/2015 2:59:28 AM	22972
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	12/30/2015 2:59:28 AM	22972

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	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512B06
04-Jan-16

Client: Animas Environmental
Project: COPC San Juan 28-7 #261M

Sample ID	MB-22991	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	22991	RunNo:	31140					
Prep Date:	12/29/2015	Analysis Date:	12/30/2015	SeqNo:	953585	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	9.6		10.00		95.7	70	130			

Sample ID	LCS-22991	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	22991	RunNo:	31140					
Prep Date:	12/29/2015	Analysis Date:	12/30/2015	SeqNo:	953624	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.5	65.8	136			
Surr: DNOP	4.4		5.000		89.0	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 | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512B06
04-Jan-16

Client: Animas Environmental
Project: COPC San Juan 28-7 #261M

Sample ID MB-22972	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 22972	RunNo: 31129								
Prep Date: 12/28/2015	Analysis Date: 12/29/2015	SeqNo: 952416	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	900		1000		89.9	66.2	112			

Sample ID LCS-22972	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 22972	RunNo: 31129								
Prep Date: 12/28/2015	Analysis Date: 12/29/2015	SeqNo: 952417	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	79.6	122			
Surr: BFB	860		1000		85.9	66.2	112			

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 | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512B06
04-Jan-16

Client: Animas Environmental
Project: COPC San Juan 28-7 #261M

Sample ID	MB-22972	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	22972	RunNo:	31129					
Prep Date:	12/28/2015	Analysis Date:	12/29/2015	SeqNo:	952441	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		125	80	120			S

Sample ID	LCS-22972	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	22972	RunNo:	31129					
Prep Date:	12/28/2015	Analysis Date:	12/29/2015	SeqNo:	952442	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.5	80	120			
Toluene	0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		131	80	120			S

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



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: **1512B06** RcptNo: **1**

Received by/date:	JA	12/23/15	
Logged By:	Ashley Gallegos	12/23/2015 8:05:00 AM	AG
Completed By:	Ashley Gallegos	12/23/2015 1:17:21 PM	AG
Reviewed By:	TO	12/23/15	

Chain of Custody

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

Log In

- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- 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)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.2	Good	Yes			

