

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 30-5 Unit 240	Facility Type: Gas Well	
Surface Owner BLM	Mineral Owner BLM	API No. 3003925202

LOCATION OF RELEASE

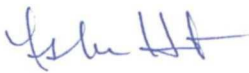
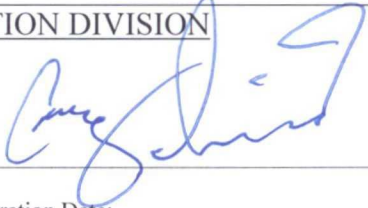
Unit Letter H	Section 22	Township 30N	Range 05W	Feet from the 1403	North/South Line North	Feet from the 1165	East/West Line East	County Rio Arriba
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Latitude **36.80146** Longitude **-107.33961**

NATURE OF RELEASE

Type of Release Historic Contamination	Volume of Release Unk	Volume Recovered 90 yds
Source of Release Unknown – found during facility reset, possible historic dehydration pit	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 10-24-2014
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? n/a	
By Whom? n/a	Date and Hour n/a	
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.* Historic hydrocarbon contamination was discovered during facility reset, possible historic dehydration pit. Impacted area was sampled and delineated by third-party environmental.		
Describe Area Affected and Cleanup Action Taken.* Historic hydrocarbon impacted soil was discovered during facility reset. The excavation was 30' x 30' x 6' in depth and 90 yds of soil was transported to IEI land farm and 90 yds of clean soil was placed in the excavation site. 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: 4/13/15	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com		Conditions of Approval:	
Date: February 2, 2015 Phone: (505) 326-9786		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

#1510342996

24



January 26, 2015

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

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

**RE: Release Assessment and Final Excavation Report
San Juan 30-5 #240
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

On October 24 and November 4, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 30-5 #240, located in Rio Arriba County, New Mexico. The release consisted of historic contamination discovered during facility reset activities while digging a pit for a below grade tank (BGT) at the location. The initial release assessment was completed by AES on October 24, 2014, and the final excavation was completed by CoP contractors while AES was at the location on November 4, 2014.

1.0 Site Information

1.1 Location

Site Name – San Juan 30-5 #240
Location – SE¼ NE¼, Section 22, T30N, R5W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.80159, W107.33974
Release Location Latitude/Longitude – N36.80146, W107.33961
Land Jurisdiction – Private
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, October 2014

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

1911 Main, Ste 280
Durango, CO
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 10 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated February 2006 for the San Juan 30-5 #90M, located approximately 1,900 feet southeast and 10 feet lower than the location, reported the depth to groundwater at 120 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:** A livestock pond is located approximately 880 feet northwest of the location. (10 points)

1.3 Assessment

AES was initially contacted by Danny Rudder, CoP representative, on October 23, 2014, and on October 24, 2014, Emilee Skyles and Dylan Davis of AES completed the release assessment field work. The assessment included collection and field sampling of two samples in the release area, five soil samples from five assessment trenches in and around the release area, and five composite samples from the initial excavation. Based on field sampling results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On November 4, 2014, AES returned to the location to collect confirmation soil samples from the final excavation. The field sampling activities included collection of five confirmation soil samples (SC-6 through SC-10) from the walls and base of the excavation. The area of the final excavation measured approximately 34 feet by 28 feet by 2 to 3 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of seven soil samples (S-1, S-2, and TH-1 through TH-5) and ten composite samples (SC-1 through SC-10) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Five composite samples (SC-6 through SC-10) collected during the final 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; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On October 24, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.2 ppm in SC-5 up to 5.0 ppm in SC-1. Field TPH concentrations ranged from 25.3 mg/kg in TH-3 to greater than 2,500 mg/kg in S-2, SC-1, SC-3, and SC-4.

On November 4, 2014, final excavation field screening results for VOCs via OVM ranged from 0.0 ppm in SC-7 through SC-10 up to 0.1 ppm in SC-6. Field TPH concentrations ranged from 59.4 mg/kg in SC-10 up to 589 mg/kg in SC-8. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Field Sampling VOCs and TPH Results
San Juan 30-5 #240 Initial Release Assessment and Final Excavation
October and November 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>TPH 418.1 (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>100</i>	<i>1,000</i>
S-1	10/24/14	2	0.4	560
S-2	10/24/14	2	0.7	>2,500
TH-1	10/24/14	2	4.6	123
TH-2	10/24/14	2	2.5	82.5
TH-3	10/24/14	2	0.3	25.3
TH-4	10/24/14	2	0.8	29.5
TH-5	10/24/14	2	0.3	30.9
SC-1	10/24/14	0 to 2	5.0	>2,500
SC-2	10/24/14	0 to 2	2.4	458
SC-3	10/24/14	0 to 2	3.0	>2,500
SC-4	10/24/14	0 to 2	1.0	>2,500
SC-5	10/24/14	3	0.2	96.5
SC-6	11/4/14	0 to 2	0.1	113
SC-7	11/4/14	0 to 2	0.0	421
SC-8	11/4/14	0 to 2	0.0	589
SC-9	11/4/14	0 to 3	0.0	266
SC-10	11/4/14	2 to 3	0.0	59.4

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

Laboratory analyses for SC-6 through SC-10 were used to confirm field sampling results from the final excavation. Benzene concentrations in SC-6 through SC-10 were reported below laboratory detection limits. Total BTEX concentrations were below laboratory detection limits that ranged from 0.235 mg/kg to 0.246 mg/kg. TPH concentrations (as GRO/DRO) varied from below the laboratory detection limit of 14.7 mg/kg in SC-10, up to 73 mg/kg in SC-8. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
San Juan 30-5 #240 Initial Release Assessment and Final Excavation
October and November 2014

<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>1,000</i>	
SC-6	11/4/14	0 to 2	<0.048	<0.239	<4.8	32
SC-7	11/4/14	0 to 2	<0.049	<0.246	<4.9	54
SC-8	11/4/14	0 to 2	<0.048	<0.240	<4.8	73
SC-9	11/4/14	0 to 3	<0.047	<0.236	<4.7	32
SC-10	11/4/14	2 to 3	<0.047	<0.235	<4.7	<10

*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 October 24, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a historic contamination discovered at the San Juan 30-5 #240. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in S-2, SC-1, SC-3, and SC-4. The highest VOC concentration was reported in SC-1 with 5.0 ppm, and the highest TPH concentration was reported in S-2, SC-1, SC-3, and SC-4 with greater than 2,500 mg/kg.

On November 4, 2014, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls and base of the excavation. Field TPH concentrations were also below the applicable NMOCD action level of 1,000 mg/kg for the final walls and base of the excavation. Laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO) in SC-6 through SC-10 below NMOCD action levels.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 30-5 #240, VOC, benzene, total BTEX, and

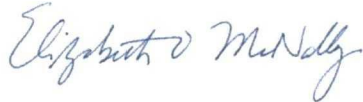
TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,



David J. Reese
Environmental Scientist

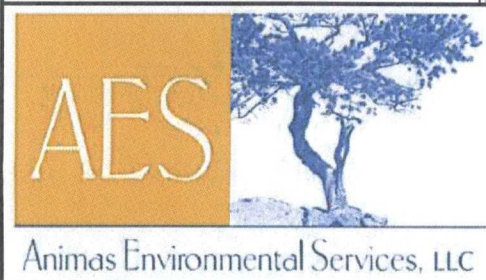
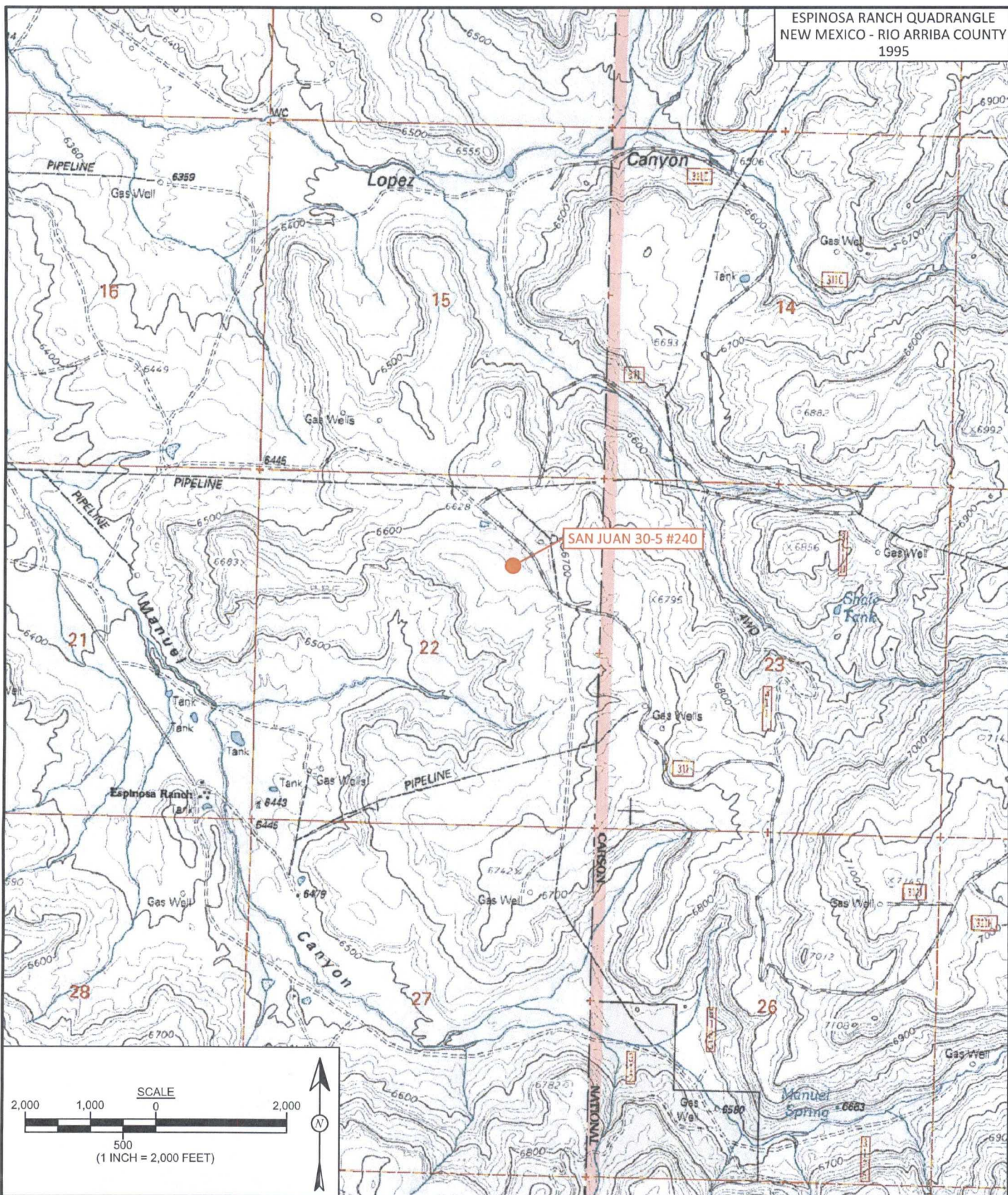


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, October 2014
- Figure 3. Initial Assessment Sample Locations and Results, October 2014
- Figure 4. Final Excavation Sample Locations and Results, November 2014
- AES Field Sampling Report 102414
- AES Field Sampling Report 110414
- Hall Laboratory Analytical Report 1411139

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Projects\ConocoPhillips\SJ 30-5 #240\San Juan 30-5 #240 Release and Final Excavation Report 012615.docx



DRAWN BY:
S. Glasses

DATE DRAWN:
October 27, 2014

REVISIONS BY:
C. Lameman

DATE REVISED:
October 27, 2014

CHECKED BY:
E. Skyles

DATE CHECKED:
October 27, 2014

APPROVED BY:
E. McNally

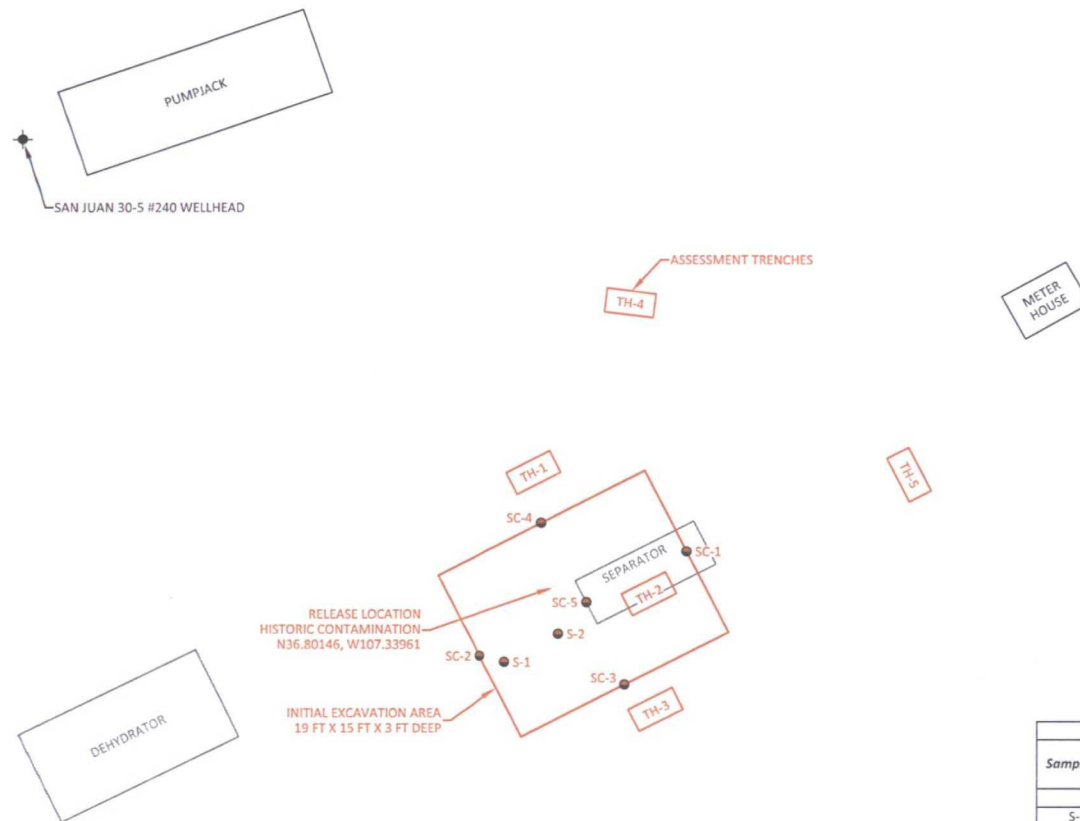
DATE APPROVED:
October 27, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
SAN JUAN 30-5 #240
SE¼ NE¼, SECTION 22, T30N, R5W
RIO ARriba COUNTY, NEW MEXICO
N36.80159, W107.33974



	DRAWN BY: S. Glasses	DATE DRAWN: October 27, 2014	FIGURE 2 AERIAL SITE MAP OCTOBER 2014 ConocoPhillips SAN JUAN 30-5 #240 SE¼ NE¼, SECTION 22, T30N, R5W RIO ARriba COUNTY, NEW MEXICO N36.80159, W107.33974
	REVISIONS BY: C. Lameman	DATE REVISED: October 27, 2014	
	CHECKED BY: E. Skyles	DATE CHECKED: October 27, 2014	
	APPROVED BY: E. McNally	DATE APPROVED: October 27, 2014	



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
S-1	10/24/14	2	0.4	560
S-2	10/24/14	2	0.7	>2,500
TH-1	10/24/14	2	4.6	123
TH-2	10/24/14	2	2.5	82.5
TH-3	10/24/14	2	0.3	25.3
TH-4	10/24/14	2	0.8	29.5
TH-5	10/24/14	2	0.3	30.9
SC-1	10/24/14	0 to 2	5.0	>2,500
SC-2	10/24/14	0 to 2	2.4	458
SC-3	10/24/14	0 to 2	3.0	>2,500
SC-4	10/24/14	0 to 2	1.0	>2,500
SC-5	10/24/14	3	0.2	96.5

SC-1 THROUGH SC-5 WERE COMPOSITE SAMPLES.

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS OCTOBER 2014
 ConocoPhillips
 SAN JUAN 30-5 #240
 SE¼ NE¼, SECTION 22, T30N, R5W
 RIO ARriba COUNTY, NEW MEXICO
 N36.80159, W107.33974

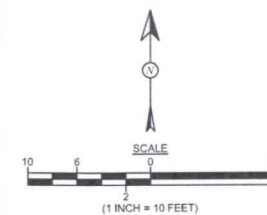


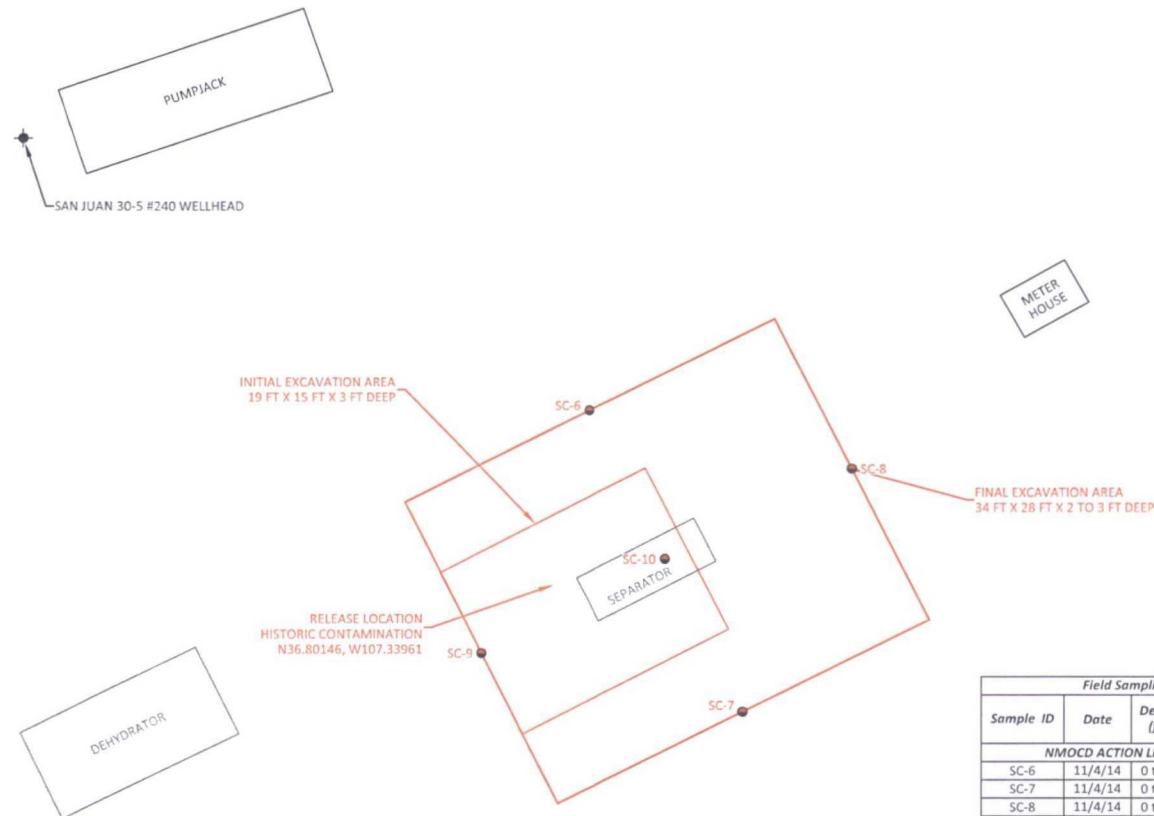
Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: October 29, 2014
REVISIONS BY: C. Lameman	DATE REVISED: November 13, 2014
CHECKED BY: E. Skyles	DATE CHECKED: November 13, 2014
APPROVED BY: E. McNally	DATE APPROVED: November 13, 2014

LEGEND

● SAMPLE LOCATIONS





Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-6	11/4/14	0 to 2	0.1	113
SC-7	11/4/14	0 to 2	0.0	421
SC-8	11/4/14	0 to 2	0.0	589
SC-9	11/4/14	0 to 3	0.0	266
SC-10	11/4/14	2 to 3	0.0	59.4

SC-6 THROUGH SC-10 WERE COMPOSITE SAMPLES.

Laboratory Analytical Results					
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL		10	50	1,000	
SC-6	11/4/14	<0.048	<0.239	<4.8	32
SC-7	11/4/14	<0.049	<0.246	<4.9	54
SC-8	11/4/14	<0.048	<0.240	<4.8	73
SC-9	11/4/14	<0.047	<0.236	<4.7	32
SC-10	11/4/14	<0.047	<0.235	<4.7	<10

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

FIGURE 4

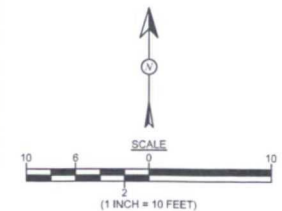
FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS NOVEMBER 2014
 ConocoPhillips
 SAN JUAN 30-5 #240
 SE¼, NE¼, SECTION 22, T30N, R5W
 RIO ARriba COUNTY, NEW MEXICO
 N36.80159, W107.33974



DRAWN BY: C. Lameman	DATE DRAWN: November 5, 2014
REVISIONS BY: C. Lameman	DATE REVISED: November 13, 2014
CHECKED BY: E. Skyles	DATE CHECKED: November 13, 2014
APPROVED BY: E. McNally	DATE APPROVED: November 13, 2014

LEGEND

● SAMPLE LOCATIONS



AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 30-5 #240

Date: 10/24/2014

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
S-1	10/24/2014	10:10	0.4	560	10:42	20.0	1	EMS
S-2	10/24/2014	10:12	0.7	>2,500	10:44	20.0	1	EMS
TH-1 @ 2'	10/24/2014	10:50	4.6	123	11:48	20.0	1	EMS
TH-2 @ 2'	10/24/2014	10:58	2.5	82.5	11:51	20.0	1	EMS
TH-3 @ 2'	10/24/2014	11:10	0.3	25.3	11:54	20.0	1	EMS
TH-4 @ 2'	10/24/2014	16:00	0.8	29.5	12:14	20.0	1	EMS
TH-5 @ 2'	10/24/2014	16:05	0.3	30.9	12:16	20.0	1	EMS
SC-1	10/24/2014	15:30	5.0	>2,500	16:07	20.0	1	EMS
SC-2	10/24/2014	14:00	2.4	458	14:21	20.0	1	EMS
SC-3	10/24/2014	15:38	3.0	>2,500	16:15	20.0	1	EMS
SC-4	10/24/2014	15:40	1.0	>2,500	16:20	20.0	1	EMS
SC-5	10/24/2014	13:45	0.2	96.5	14:02	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: *Enik Skyl*

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 30-5 #240

Date: 11/4/2014

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	11/4/2014	13:25	North Wall	0.1	113	14:15	20.0	1	EMS
SC-7	11/4/2014	13:53	South Wall	0.0	421	14:18	20.0	1	EMS
SC-8	11/4/2014	13:32	East Wall	0.0	589	14:20	20.0	1	EMS
SC-9	11/4/2014	14:30	West Wall	0.0	266	14:56	20.0	1	EMS
SC-10	11/4/2014	13:40	Base	0.0	59.4	14:24	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: *Emil Syl*



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

November 11, 2014

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

RE: CoP SJ 30-5 #240

OrderNo.: 1411139

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/5/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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.

Analytical Report

Lab Order 1411139

Date Reported: 11/11/2014

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project: CoP SJ 30-5 #240

Collection Date: 11/4/2014 1:25:00 PM

Lab ID: 1411139-001

Matrix: SOIL

Received Date: 11/5/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	32	10		mg/Kg	1	11/6/2014 10:02:45 AM	16244
Surr: DNOP	107	63.5-128		%REC	1	11/6/2014 10:02:45 AM	16244
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/6/2014 11:59:43 AM	16255
Surr: BFB	83.7	80-120		%REC	1	11/6/2014 11:59:43 AM	16255
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	11/6/2014 11:59:43 AM	16255
Toluene	ND	0.048		mg/Kg	1	11/6/2014 11:59:43 AM	16255
Ethylbenzene	ND	0.048		mg/Kg	1	11/6/2014 11:59:43 AM	16255
Xylenes, Total	ND	0.095		mg/Kg	1	11/6/2014 11:59:43 AM	16255
Surr: 4-Bromofluorobenzene	85.5	80-120		%REC	1	11/6/2014 11:59:43 AM	16255

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1411139

Date Reported: 11/11/2014

CLIENT: Animas Environmental

Client Sample ID: SC-7

Project: CoP SJ 30-5 #240

Collection Date: 11/4/2014 1:53:00 PM

Lab ID: 1411139-002

Matrix: SOIL

Received Date: 11/5/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	54	9.9		mg/Kg	1	11/6/2014 12:02:43 PM	16244
Surr: DNOP	119	63.5-128		%REC	1	11/6/2014 12:02:43 PM	16244
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/6/2014 1:28:08 PM	16255
Surr: BFB	89.0	80-120		%REC	1	11/6/2014 1:28:08 PM	16255
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	11/6/2014 1:28:08 PM	16255
Toluene	ND	0.049		mg/Kg	1	11/6/2014 1:28:08 PM	16255
Ethylbenzene	ND	0.049		mg/Kg	1	11/6/2014 1:28:08 PM	16255
Xylenes, Total	ND	0.099		mg/Kg	1	11/6/2014 1:28:08 PM	16255
Surr: 4-Bromofluorobenzene	91.6	80-120		%REC	1	11/6/2014 1:28:08 PM	16255

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-8

Project: CoP SJ 30-5 #240

Collection Date: 11/4/2014 1:32:00 PM

Lab ID: 1411139-003

Matrix: SOIL

Received Date: 11/5/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	73	10		mg/Kg	1	11/6/2014 1:53:23 PM	16244
Surr: DNOP	125	63.5-128		%REC	1	11/6/2014 1:53:23 PM	16244
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/6/2014 2:54:02 PM	16255
Surr: BFB	91.6	80-120		%REC	1	11/6/2014 2:54:02 PM	16255
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	11/6/2014 2:54:02 PM	16255
Toluene	ND	0.048		mg/Kg	1	11/6/2014 2:54:02 PM	16255
Ethylbenzene	ND	0.048		mg/Kg	1	11/6/2014 2:54:02 PM	16255
Xylenes, Total	ND	0.096		mg/Kg	1	11/6/2014 2:54:02 PM	16255
Surr: 4-Bromofluorobenzene	96.3	80-120		%REC	1	11/6/2014 2:54:02 PM	16255

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1411139

Date Reported: 11/11/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-9**Project:** CoP SJ 30-5 #240**Collection Date:** 11/4/2014 2:30:00 PM**Lab ID:** 1411139-004**Matrix:** SOIL**Received Date:** 11/5/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	32	10		mg/Kg	1	11/6/2014 3:25:21 PM	16244
Surr: DNOP	114	63.5-128		%REC	1	11/6/2014 3:25:21 PM	16244
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/6/2014 3:22:39 PM	16255
Surr: BFB	91.9	80-120		%REC	1	11/6/2014 3:22:39 PM	16255
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	11/6/2014 3:22:39 PM	16255
Toluene	ND	0.047		mg/Kg	1	11/6/2014 3:22:39 PM	16255
Ethylbenzene	ND	0.047		mg/Kg	1	11/6/2014 3:22:39 PM	16255
Xylenes, Total	ND	0.095		mg/Kg	1	11/6/2014 3:22:39 PM	16255
Surr: 4-Bromofluorobenzene	96.3	80-120		%REC	1	11/6/2014 3:22:39 PM	16255

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1411139

Date Reported: 11/11/2014

CLIENT: Animas Environmental

Client Sample ID: SC-10

Project: CoP SJ 30-5 #240

Collection Date: 11/4/2014 1:40:00 PM

Lab ID: 1411139-005

Matrix: SOIL

Received Date: 11/5/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/6/2014 4:26:40 PM	16244
Surr: DNOP	121	63.5-128		%REC	1	11/6/2014 4:26:40 PM	16244
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/6/2014 3:51:13 PM	16255
Surr: BFB	92.1	80-120		%REC	1	11/6/2014 3:51:13 PM	16255
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	11/6/2014 3:51:13 PM	16255
Toluene	ND	0.047		mg/Kg	1	11/6/2014 3:51:13 PM	16255
Ethylbenzene	ND	0.047		mg/Kg	1	11/6/2014 3:51:13 PM	16255
Xylenes, Total	ND	0.094		mg/Kg	1	11/6/2014 3:51:13 PM	16255
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	11/6/2014 3:51:13 PM	16255

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411139

11-Nov-14

Client: Animas Environmental

Project: CoP SJ 30-5 #240

Sample ID	MB-16244	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	16244	RunNo:	22362					
Prep Date:	11/5/2014	Analysis Date:	11/6/2014	SeqNo:	659067	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	11		10.00		106	63.5	128			

Sample ID	1411139-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-6	Batch ID:	16244	RunNo:	22362					
Prep Date:	11/5/2014	Analysis Date:	11/6/2014	SeqNo:	659383	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	76	9.8	49.21	32.41	89.5	29.2	176			
Surr: DNOP	5.8		4.921		118	63.5	128			

Sample ID	1411139-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-6	Batch ID:	16244	RunNo:	22362					
Prep Date:	11/5/2014	Analysis Date:	11/6/2014	SeqNo:	659384	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	88	10	49.80	32.41	111	29.2	176	13.6	23	
Surr: DNOP	5.7		4.980		114	63.5	128	0	0	

Sample ID	LCS-16244	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	16244	RunNo:	22362					
Prep Date:	11/5/2014	Analysis Date:	11/6/2014	SeqNo:	659584	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	68.6	130			
Surr: DNOP	5.2		5.000		105	63.5	128			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411139

11-Nov-14

Client: Animas Environmental

Project: CoP SJ 30-5 #240

Sample ID	MB-16255		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 16255		RunNo: 22385					
Prep Date:	11/5/2014		Analysis Date: 11/6/2014		SeqNo: 659829		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	850		1000		85.4	80	120			

Sample ID	LCS-16255		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 16255		RunNo: 22385					
Prep Date:	11/5/2014		Analysis Date: 11/6/2014		SeqNo: 659830		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	65.8	139			
Surr: BFB	920		1000		92.4	80	120			

Sample ID	1411139-001AMS			SampType:	MS		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	SC-6			Batch ID:	16255		RunNo:	22385			
Prep Date:	11/5/2014			Analysis Date:	11/6/2014		SeqNo:	659832		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	4.8	23.76	0	104	71.8	132				
Surr: BFB	890		950.6		93.5	80	120				

Sample ID	1411139-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	SC-6		Batch ID:	16255		RunNo:	22385				
Prep Date:	11/5/2014		Analysis Date:	11/6/2014		SeqNo:	659833		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	28	4.8	23.81	0	118	71.8	132	13.1	20		
Surr: BFB	910		952.4		95.9	80	120	0	0		

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411139

11-Nov-14

Client: Animas Environmental

Project: CoP SJ 30-5 #240

Sample ID	MB-16255	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 16255			RunNo: 22385					
Prep Date:	11/5/2014	Analysis Date: 11/6/2014			SeqNo: 659841		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.2	80	120			

Sample ID	LCS-16255		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 16255		RunNo: 22385					
Prep Date:	11/5/2014		Analysis Date: 11/6/2014		SeqNo: 659842		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	96.2	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	80	120			

Sample ID	1411139-002AMS			SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SC-7			Batch ID:	16255		RunNo:	22385			
Prep Date:	11/5/2014			Analysis Date:	11/6/2014		SeqNo:	659845		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.049	0.9852	0	101	77.4	142				
Toluene	1.0	0.049	0.9852	0.01165	103	77	132				
Ethylbenzene	1.1	0.049	0.9852	0.009645	107	77.6	134				
Xylenes, Total	3.1	0.099	2.956	0.03770	104	77.4	132				
Surr: 4-Bromofluorobenzene	1.0		0.9852		101	80	120				

Sample ID	1411139-002AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-7		Batch ID: 16255		RunNo: 22385					
Prep Date:	11/5/2014		Analysis Date: 11/6/2014		SeqNo: 659846		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9852	0	104	77.4	142	2.94	20	
Toluene	1.1	0.049	0.9852	0.01165	106	77	132	2.82	20	
Ethylbenzene	1.1	0.049	0.9852	0.009645	109	77.6	134	2.23	20	
Xylenes, Total	3.2	0.099	2.956	0.03770	108	77.4	132	2.98	20	
Surr: 4-Bromofluorobenzene	1.0		0.9852		103	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



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: 1411139

RcptNo: 1

Received by/date: AT 11/05/14

Logged By: Anne Thorne 11/5/2014 7:30:00 AM

Completed By: Anne Thorne 11/5/2014

Reviewed By: mg 11/05/14

Anne Thorne

Anne Thorne

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:	<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	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address: 604 Pinon

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

60 SJ 30-5 #240

Project #:

Project Manager:

E. Skyles

Sampler: E. Skyles

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THBs (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)
4/14	13:25	Soil	SC-6	1-402	cool	141139	X		X									
4/14	13:53	Soil	SC-7	1-402	cool	141139	X		X									
4/14	13:32	Soil	SC-8	1-402	cool	141139	X		X									
4/14	14:30	Soil	SC-9	1-402	cool	141139	X		X									
4/14	13:40	Soil	SC-10	1-402	cool	141139	X		X									

Date: 11/4/14 Time: 1808 Relinquished by: [Signature]

Received by: [Signature] Date: 11/4/14 Time: 1808

Date: 11/4/14 Time: 1840 Relinquished by: [Signature]

Received by: [Signature] Date: 11/5/14 Time: 0730

Remarks: Bill to ConocoPhillips
WO # 20438868
SUPERVISOR: Mike Murphy
USER: KGARCIA
Area: 8
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.