

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

MAY 04 2016

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

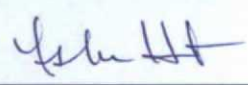

Name of Company ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607
Facility Name: Phillips 2E	Facility Type: Gas Well
Surface Owner BLM	Mineral Owner BLM (NM-013365)
API No. 3004524407	

LOCATION OF RELEASE

Unit Letter N	Section 22	Township 28N	Range 11W	Feet from the 1120	North/South Line South	Feet from the 1800	East/West Line West	County San Juan
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Latitude **36.64364** Longitude **-107.99441**

NATURE OF RELEASE

Type of Release Historic Contamination	Volume of Release Unknown	Volume Recovered 625 yds
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery August 17, 2015
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 contamination discovered during Facility Reset activities.		
Describe Area Affected and Cleanup Action Taken.* Excavation was 31' x 52' x 8' Deep. 625 c/yds of soil was transported to IEI Land Farm and 625 c/yds of clean soil from an approved source was placed in the excavation site. Site was ranked 40. Walls of the excavation were below NMOCD Action levels and the base terminated at sandstone. With a TPH of 112 ppm on the west end of the base, COPC sprayed the base with a microbial agent and backfilled with NMOCD and BLM approval on January 26, 2016. 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: 06/07/2016	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval: —	Attached <input type="checkbox"/>
Date: May 2, 2016	Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary

NVF1615934123



April 26, 2016

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

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

**RE: Release Assessment and Final Excavation Report
Phillips 2E
San Juan County, New Mexico**

Dear Ms. Hunter:

On August 18 and 21, 2015, October 1 and 2, 2015, and January 20, 2016, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Phillips 2E, located in San Juan County, New Mexico. The release consisted of historic contamination discovered during facility reset activities. An initial excavation was started on August 2015, followed by continued delineation activities in October 2015. Final excavation activities were completed in January 2016.

1.0 Site Information

1.1 Location

Site Name – Phillips 2E

Location – SE¼ SW¼, Section 22, T28N, R11W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.64381 and W107.99417, respectively

Release Location Latitude/Longitude – N36.64364 and W107.99441, 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 40 based on the following factors:

- **Depth to Groundwater:** A BGT permit application (C-144) from site-specific hydrogeology report dated August 2015 estimated the depth to groundwater to be 6 feet below ground surface (bgs). However, note that during site work in 2015 and 2016, groundwater was not encountered during an excavation that was terminated on sandstone at 6 feet bgs. (20 points)
- **Wellhead Protection Area:** The tank location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash which ultimately discharges to Kutz Wash is located approximately 95 feet east of the location. (20 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of COPC on August 18, 2015, and on August 21, 2015, Corwin Lameman and Sam Glasses of AES completed the initial assessment and excavation field work. Activities included collection and field sampling of six samples from four assessment trenches in and around the release area, and six confirmation soil samples (SC-1, SC-3, and SC-6 through SC-9) from the walls and base of the initial excavation. The area of the initial excavation measured approximately 15 feet by 22 feet by 5 feet in depth. Note that delineation and excavation extents were limited by the presence of a nearby Enterprise Products pipeline, onsite production tank, and site boundary excavation constraints. Sample locations and initial excavation extents are shown on Figure 3.

On October 1 and 2, 2015, AES completed the release assessment field work. The assessment included collection and field sampling of 25 soil samples from six borings in and around the release area. Soil borings were terminated between 2.5 and 10 feet bgs. Based on field sampling results, AES recommended further excavation of the release area. Sample locations are shown on Figure 4.

On January 20, 2016, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of six confirmation soil samples (SC-1 through SC-6) from the walls and base of the excavation. The area of the final excavation measured approximately 31 feet by 52 feet by 8 feet in depth. The depth of the excavation was limited due to a sandstone unit around 3 to 6 feet bgs. Sample locations and final excavation extents are presented on Figure 5.

2.0 Soil Sampling

A total of 43 soil samples from four assessment trenches (TH-1 through TH-4), six borings (SB-1 through SB-6), and 12 composite samples (SC-1, SC-3, and SC-6 through SC-9 collected August 2015, and SC-1 through SC-6 collected January 2016) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Six composite samples (SC-1 through SC-6) collected during the final excavation 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 August 18 and 21, 2015, initial assessment and excavation field screening results for VOCs via OVM showed concentrations ranging from 0.2 ppm in TH-3 up to 1,827 ppm in SC-3. Field TPH concentrations ranged from 25.9 mg/kg in TH-3 to greater than 2,500 mg/kg in SC-7 through SC-9.

On October 1 and 2, 2015, release assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in SB-1, SB-3, and SB-6 up to 647 ppm in SB-2. Field TPH concentrations ranged from 43.8 mg/kg in SB-1 to 212 mg/kg in SB-2.

On January 20, 2016, final excavation field screening results for VOCs via OVM ranged from 8.6 ppm in SC-6 up to 1,260 ppm in SC-5. Field TPH concentrations ranged from 33.5 mg/kg in SC-1 up to 294 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 through 5. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs and TPH Results
 Phillips 2E Initial Release Assessment and Final Excavation
 August 2015, October 2015, and January 2016

<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>100</i>
TH-1	8/18/15	5	13.9	89.7
TH-2	8/18/15	5	84.5	43.6
TH-3	8/21/15	4	1.8	48.4
		7.5	0.2	25.9
TH-4	8/21/15	6.5	1.8	408
		8	31.1	563
SC-1	8/18/15	0 to 5	28.9	301
SC-2	8/18/15	5	1,827	760
SC-3	8/21/15	0 to 5	388	451
SC-4	8/21/15	0 to 3.75	253	>2,500
SC-5	8/21/15	0 to 5.75	986	>2,500
SC-6	8/21/15	3.75 to 5.75	211	>2,500
SB-1	10/1/15	2.5	0.4	94.1
		5.0	9.6	48.8
		7.5	12.3	43.8
		10.0	0.0	60.6
SB-2	10/1/15	2.5	157	212
		5.0	138	87.4
		5.5	586	114

<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>			100	100
SB-3	10/1/15	7.5	647	102
		10.0	16.9	72.3
		2.5	0.0	80.7
		5.0	6.1	77.3
		7.5	13.5	74.0
		10.0	11.3	62.2
SB-4	10/2/15	2.5	197	NA
		5.0	15.9	82.4
		7.5	4.0	63.9
		10.0	2.5	48.8
SB-5	10/2/15	2.5	1.9	NA
		5.0	3.4	87.4
		7.5	7.5	138
		10.0	2.0	63.9
SB-6	10/2/15	2.5	0.0	NA
		5.0	0.0	67.3
		7.5	0.0	58.9
		10.0	10.2	70.6
SC-1	1/20/16	0 to 6	13.6	33.5
SC-2	1/20/16	3 to 6	14.9	61.3
SC-3	1/20/16	0 to 6	30.9	49.6
SC-4	1/20/16	0 to 6	150	136
SC-5	1/20/16	6	1,260	294
SC-6	1/20/16	3 to 6	8.6	86.2

NA - not analyzed

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

Laboratory analyses for SC-1 through SC-6 were used to confirm field sampling results from the final excavation. Benzene concentrations were reported below laboratory detection limits in all samples. Total BTEX concentrations above detection limits were noted in SC-5 with 1.36 mg/kg. TPH concentrations as GRO/DRO were reported above laboratory detection limits in SC-4 (38 mg/kg), SC-5 (112 mg/kg), and SC-6 (12 mg/kg). Results are presented in Table 2 and on Figure 5. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
 Phillips 2E Final Excavation
 January 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMOCD Action Level*			10	50	100	
SC-1	1/20/16	0 to 6	<0.049	<0.246	<4.9	<9.7
SC-2	1/20/16	3 to 6	<0.048	<0.241	<4.8	<9.8
SC-3	1/20/16	0 to 6	<0.049	<0.245	<4.9	<9.9
SC-4	1/20/16	0 to 6	<0.042	<0.210	<4.2	38
SC-5	1/20/16	6	<0.040	1.36	31	81
SC-6	1/20/16	3 to 6	<0.047	<0.236	<4.7	12

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

3.0 Conclusions and Recommendations

On August 18 and 21, 2015, AES conducted an initial assessment and excavation of petroleum contaminated soils associated with a historic release discovered during a facility reset at the Phillips 2E. 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 40.

Initial assessment and excavation field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in TH-4, SC-1, SC-3, and SC-6 through SC-9. The highest VOC concentration was reported in SC-3 with 1,827 ppm, and the highest TPH concentration was reported in SC-7 through SC-9, each with greater than 2,500 mg/kg.


On October 1 and 2, 2015, release assessment activities were completed. Field sampling results above NMOCD action levels were reported in SB-2, SB-4, and SB-5. The maximum VOC concentration was reported in SB-2 with 647 ppm, and the highest TPH concentration was also reported in in SB-2 with 212 mg/kg.

On January 20, 2016, 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, except for SC-4 (northwest wall) and SC-5 (north base), which had VOC concentrations of 150 ppm and 1,260 ppm, respectively. Field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for the final walls and base of the excavation, with the exception of SC-3 (east wall), SC-4, and SC-5, which had TPH concentrations of 176 mg/kg, 136 mg/kg, and 294 mg/kg, respectively. Laboratory analytical results reported benzene and total BTEX concentrations in all samples below NMOCD action levels, and TPH concentrations as GRO/DRO were reported below the applicable NMOCD action level in all samples except SC-5, at 112 mg/kg.

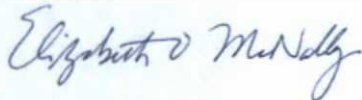
Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Phillips 2E, benzene, total BTEX, and TPH concentrations were below the NMOCD action levels for the final sidewalls and the south base of the excavation. However, the north base (SC-5) of the excavation slightly exceeded applicable NMOCD action levels for TPH with 112 mg/kg. On January 25, 2016, COPC received approval to backfill the excavation from Katherina Diema of the BLM and Vanessa Fields of the NMOCD following application of Quantum Growth™ to the northern portion of the 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, August 2015
Figure 3. Initial Excavation Sample Locations and Results, August 2015
Figure 4. Release Assessment Sample Locations and Results, October 2015
Figure 5. Final Excavation Sample Locations and Results, January 2016
AES Field Sampling Report 081815
AES Field Sampling Report 082115
AES Field Sampling Report 100115
AES Field Sampling Report 100215
AES Field Sampling Report 012016
Hall Laboratory Analytical Report 1601766

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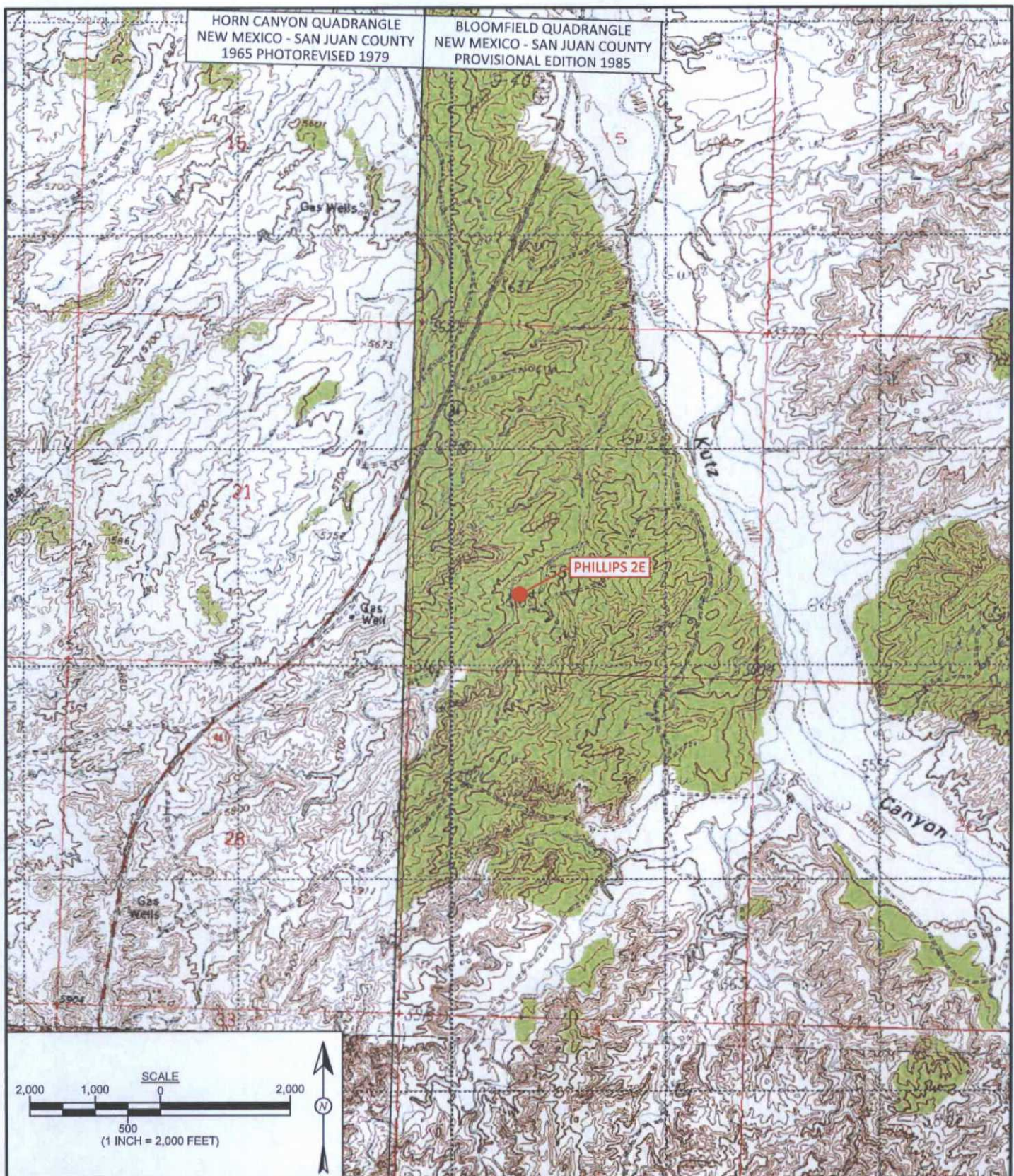


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
PHILLIPS 2E
SE $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 22, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.64381, W107.99417



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DRAWN BY:

S. Glasses

DATE DRAWN:

September 2, 2015

REVISIONS BY:

C. Lameman

DATE REVISED:

April 26, 2016

CHECKED BY:

E. Skyles

DATE CHECKED:

April 26, 2016

APPROVED BY:

E. McNally

DATE APPROVED:

April 26, 2016

LEGEND	
	SECONDARY CONTAINMENT
	BERM
	FENCE




 <p>animas environmental services Farmington, NM • Durango, CO animasenvironmental.com</p>	DRAWN BY: S. Glasses	DATE DRAWN: September 2, 2015	<p>FIGURE 2</p> <p>AERIAL SITE MAP AUGUST 2015 ConocoPhillips PHILLIPS 2E SE¼, SW¼, SECTION 22, T28N, R11W SAN JUAN COUNTY, NEW MEXICO N36.64381, W107.99417</p>
	REVISIONS BY: C. Lameman	DATE REVISED: April 26, 2016	
	CHECKED BY: E. Skyles	DATE CHECKED: April 26, 2016	
	APPROVED BY: E. McNally	DATE APPROVED: April 26, 2016	

FIGURE 3

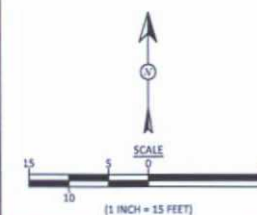
**INITIAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
AUGUST 2015**
ConocoPhillips
PHILLIPS 2E
SE¼ SW¼, SECTION 22, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.64381, W107.99417



DRAWN BY: C. Lameman	DATE DRAWN: August 19, 2015
REVISIONS BY: C. Lameman	DATE REVISED: April 26, 2016
CHECKED BY: E. Skyles	DATE CHECKED: April 26, 2016
APPROVED BY: E. McNally	DATE APPROVED: April 26, 2016

LEGEND

- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM

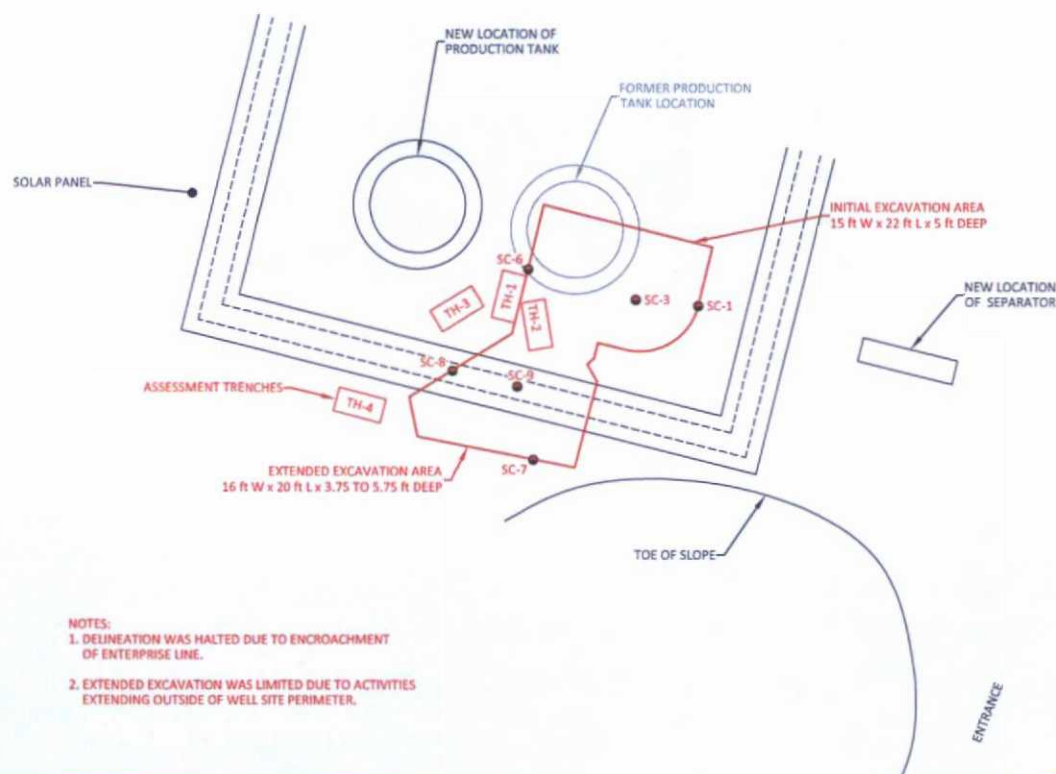


Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
TH-1	8/18/15	5	13.9	89.7
TH-2	8/18/15	5	84.5	43.6
TH-3	8/21/15	4	1.8	48.4
		7.5	0.2	25.9
TH-4	8/21/15	6.5	1.8	408
		8	31.1	563
SC-1	8/18/15	0 to 5	28.9	301
SC-3	8/18/15	5	1,827	760
SC-6	8/21/15	0 to 5	388	451
SC-7	8/21/15	0 to 3.75	253	>2,500
SC-8	8/21/15	0 to 5.75	986	>2,500
SC-9	8/21/15	3.75 to 5.75	211	>2,500

SC-1 THROUGH SC-9 WERE COMPOSITE SAMPLES. SC-2, SC-4, AND SC-5 ARE OMITTED DUE TO EXCAVATION EXTENSION.

APPROXIMATE LOCATION OF ENTERPRISE PIPELINE

PHILLIPS 2E WELLHEAD



- NOTES:**
1. DELINEATION WAS HALTED DUE TO ENCROACHMENT OF ENTERPRISE LINE.
 2. EXTENDED EXCAVATION WAS LIMITED DUE TO ACTIVITIES EXTENDING OUTSIDE OF WELL SITE PERIMETER.

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SB-1	10/1/15	2.5	0.4	94.1
		5.0	9.6	48.8
		7.5	12.3	43.8
		10.0	0.0	60.6
SB-2	10/1/15	2.5	157	212
		5.0	138	87.4
		5.5	586	114
		7.5	647	102
SB-3	10/1/15	10.0	16.9	72.3
		2.5	0.0	80.7
		5.0	6.1	77.3
		7.5	13.5	74.0
SB-4	10/2/15	10.0	11.3	62.2
		2.5	197	NA
		5.0	15.9	82.4
		7.5	4.0	63.9
SB-5	10/2/15	10.0	2.5	48.8
		2.5	1.9	NA
		5.0	3.4	87.4
		7.5	7.5	138
SB-6	10/2/15	10.0	2.0	63.9
		2.5	0.0	NA
		5.0	0.0	67.3
		7.5	0.0	58.9
		10.0	10.2	70.6
NA - NOT ANALYZED				

NA - NOT ANALYZED

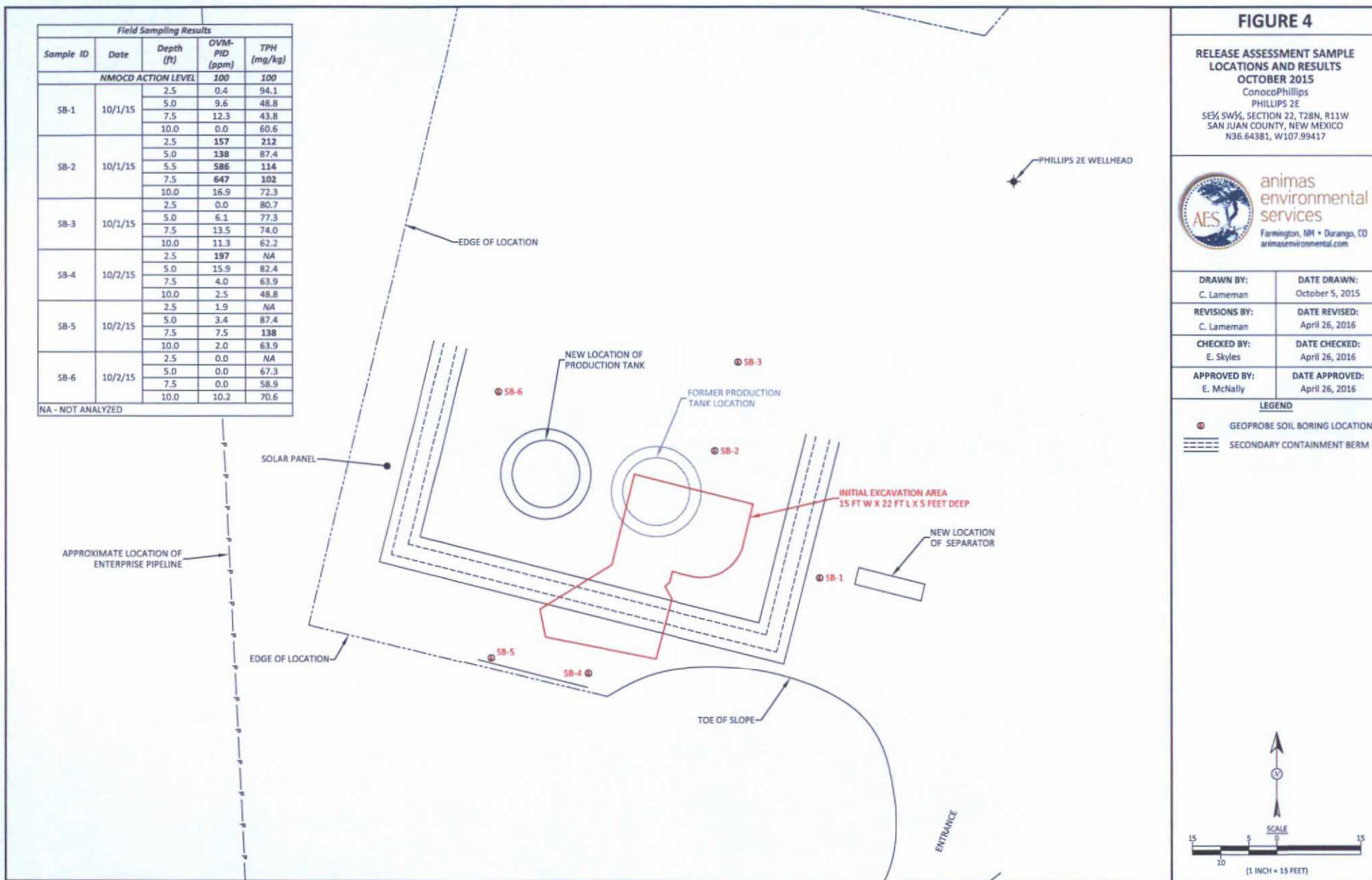


FIGURE 5

**FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
JANUARY 2016**
ConocoPhillips
PHILLIPS 2E
SE¼ SW¼, SECTION 22, T28N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.64381, W107.99417

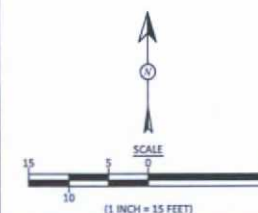


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DRAWN BY: C. Lameman	DATE DRAWN: January 21, 2016
REVISIONS BY: C. Lameman	DATE REVISED: April 26, 2016
CHECKED BY: E. Skyles	DATE CHECKED: April 26, 2016
APPROVED BY: E. McNally	DATE APPROVED: April 26, 2016

LEGEND

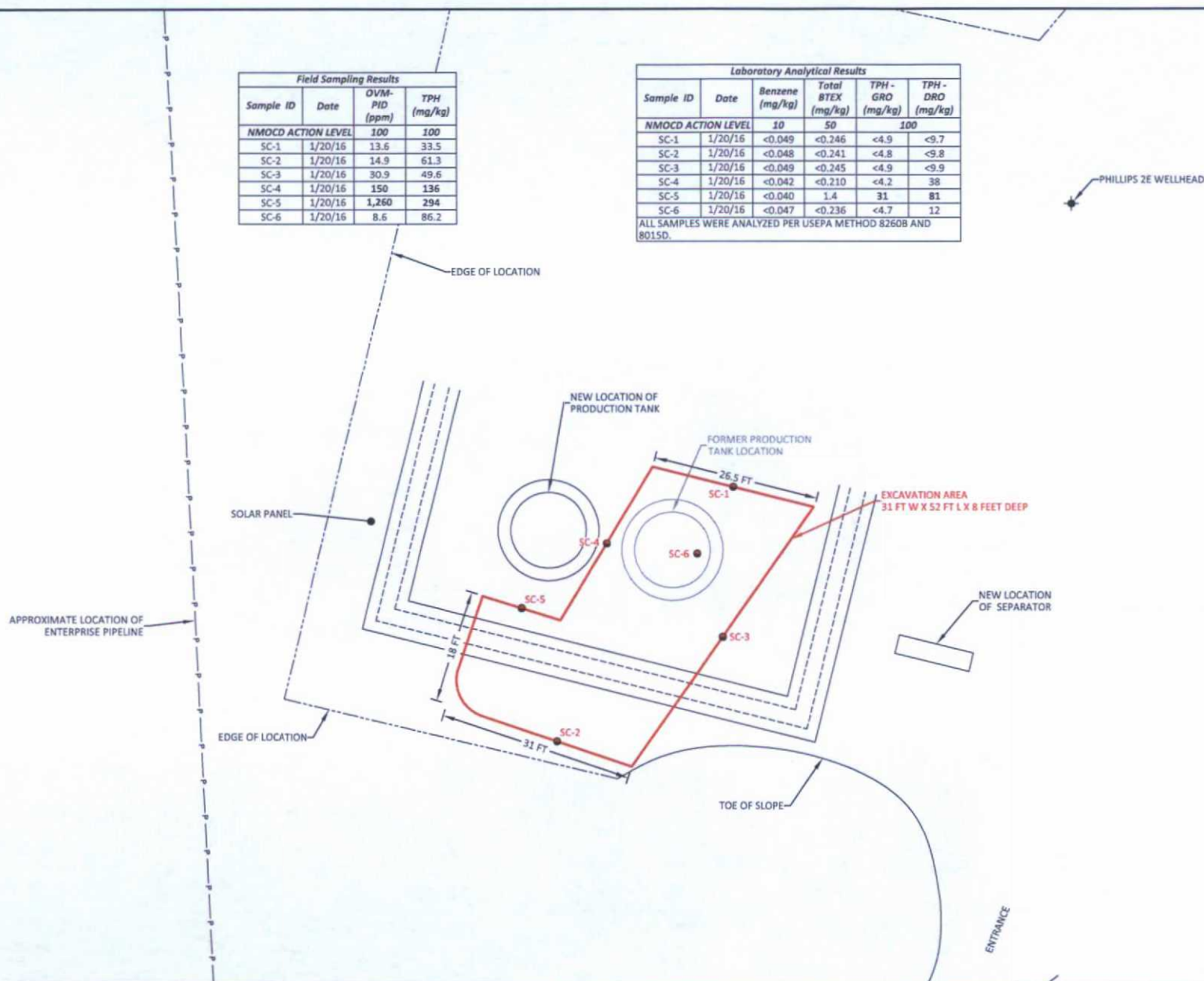
- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM



Field Sampling Results			
Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL		100	100
SC-1	1/20/16	13.6	33.5
SC-2	1/20/16	14.9	61.3
SC-3	1/20/16	30.9	49.6
SC-4	1/20/16	150	136
SC-5	1/20/16	1,260	294
SC-6	1/20/16	8.6	86.2

Laboratory Analytical Results					
Sample ID	Date	Benzene (mg/kg)	Total BTX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL		10	50	100	
SC-1	1/20/16	<0.049	<0.246	<4.9	<9.7
SC-2	1/20/16	<0.048	<0.241	<4.8	<9.8
SC-3	1/20/16	<0.049	<0.245	<4.9	<9.9
SC-4	1/20/16	<0.042	<0.210	<4.2	38
SC-5	1/20/16	<0.040	1.4	31	81
SC-6	1/20/16	<0.047	<0.236	<4.7	12

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



AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Phillips 2E

Date: 8/18/2015

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-1 @ 0-5'	8/18/2015	12:00	East of Hole	28.9	301	12:43	20.0	1	CL
SC-3 @ 5'	8/18/2015	12:09	Base	1,827	760	12:50	20.0	1	CL
TH-1 @ 5'	8/18/2015	13:25	West of Hole	13.9	89.7	13:54	20.0	1	CL
TH-2 @ 5'	8/18/2015	13:30	SW of Hole	84.5	43.6	13:59	20.0	1	CL

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit

**TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Phillips 2E

Date: 8/21/2015

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 @ 0-5'	8/21/2015	10:50	NW Wall	388	451	11:33	20.0	1	CL
SC-7 @ 0-3.75'	8/21/2015	13:10	South Wall	253	>2,500	13:39	20.0	1	CL
SC-8 @ 0-5.75'	8/21/2015	13:15	SW Wall	986	>2,500	13:44	20.0	1	CL
SC-9 @ 3.75-5.75'	8/21/2015	14:10	Base	211	>2,500	14:29	20.0	1	CL
TH-3 @ 4'	8/21/2015	12:30	--	1.8	48.4	12:53	20.0	1	CL
TH-3 @ 7.5'	8/21/2015	12:35	--	0.2	25.9	12:58	20.0	1	CL
TH-4 @ 6.5'	8/21/2015	12:45	--	1.8	408	13:25	20.0	1	CL
TH-4 @ 8'	8/21/2015	12:50	--	31.1	563	13:32	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Phillips 2E

Date: 10/1/2015

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 @ 2.5'	10/1/2015	11:10	0.4	94.1	11:42	20.0	1	DTD
SB-1 @ 5'	10/1/2015	11:17	9.6	48.8	11:51	20.0	1	DTD
SB-1 @ 7.5'	10/1/2015	11:26	12.3	43.8	11:56	20.0	1	DTD
SB-1 @ 10'	10/1/2015	11:31	0.0	60.6	12:01	20.0	1	DTD
SB-2 @ 2.5'	10/1/2015	13:00	157	212	13:37	20.0	1	DTD
SB-2 @ 5'	10/1/2015	13:05	138	87	13:43	20.0	1	DTD
SB-2 @ 5.5'	10/1/2015	13:16	586	114	13:51	20.0	1	DTD
SB-2 @ 7.5'	10/1/2015	13:19	647	102	13:56	20.0	1	DTD
SB-2 @ 10'	10/1/2015	13:30	16.9	72.3	14:04	20.0	1	DTD
SB-3 @ 2.5'	10/1/2015	14:20	0.0	80.7	14:51	20.0	1	DTD
SB-3 @ 5'	10/1/2015	14:27	6.1	77.3	14:57	20.0	1	DTD
SB-3 @ 7.5'	10/1/2015	14:30	13.5	74.0	15:01	20.0	1	DTD
SB-3 @ 10'	10/1/2015	14:39	11.3	62.2	15:07	20.0	1	DTD

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
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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: *Delilah T. Dongji*

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Phillips 2E

Date: 10/2/2015

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-4 @ 2.5'	10/2/2015	8:50	197	Not Analyzed for TPH				
SB-4 @ 5'	10/2/2015	9:07	15.9	82.4	9:37	20.0	1	EMS
SB-4 @ 7.5'	10/2/2015	9:15	4.0	63.9	9:30	20.0	1	EMS
SB-4 @ 10'	10/2/2015	9:25	2.5	48.8	9:33	20.0	1	EMS
SB-5 @ 2.5'	10/2/2015	9:55	1.9	Not Analyzed for TPH				
SB-5 @ 5'	10/2/2015	10:00	3.4	87.4	10:15	20.0	1	EMS
SB-5 @ 7.5'	10/2/2015	10:08	7.5	138	10:33	20.0	1	EMS
SB-5 @ 10'	10/2/2015	10:15	2.0	63.9	10:35	20.0	1	EMS
SB-6 @ 2.5'	10/2/2015	10:40	0.0	Not Analyzed for TPH				
SB-6 @ 5'	10/2/2015	10:44	0.0	67.3	11:16	20.0	1	EMS
SB-6 @ 7.5'	10/2/2015	10:50	0.0	58.9	11:19	20.0	1	EMS
SB-6 @ 10'	10/2/2015	10:55	10.2	70.6	11:22	20.0	1	EMS

DF

Dilution Factor

Total Petroleum Hydrocarbons - USEPA 418.1

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
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NA Not Analyzed

PQL Practical Quantitation Limit

**Field TPH concentrations recorded may be below PQL.*

Analyst:

Smith S L

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Phillips 2E

Date: 1/20/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	1/20/2016	11:30	North Wall	13.6	33.5	12:02	20.0	1	EMS
SC-2	1/20/2016	12:45	South Wall	14.9	61.3	13:09	20.0	1	EMS
SC-3	1/20/2016	14:09	East Wall	30.9	49.6	14:27	20.0	1	EMS
SC-4	1/20/2016	13:18	West Wall	150	136	13:46	20.0	1	EMS
SC-5	1/20/2016	10:24	North Base	1,260	294	11:46	20.0	1	EMS
SC-6	1/20/2016	10:52	South Base	8.6	86.2	11:58	20.0	1	EMS

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Emil SkL



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

January 26, 2016

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

RE: COPC Phillips 2E

OrderNo.: 1601766

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/21/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1601766

Date Reported: 1/26/2016

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: COPC Phillips 2E

Collection Date: 1/20/2016 11:30:00 AM

Lab ID: 1601766-001

Matrix: SOIL

Received Date: 1/21/2016 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/22/2016 10:49:11 AM	23338
Surr: DNOP	90.1	70-130		%REC	1	1/22/2016 10:49:11 AM	23338
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/23/2016 2:26:36 PM	23333
Surr: BFB	92.1	66.2-112		%REC	1	1/23/2016 2:26:36 PM	23333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	1/23/2016 2:26:36 PM	23333
Toluene	ND	0.049		mg/Kg	1	1/23/2016 2:26:36 PM	23333
Ethylbenzene	ND	0.049		mg/Kg	1	1/23/2016 2:26:36 PM	23333
Xylenes, Total	ND	0.099		mg/Kg	1	1/23/2016 2:26:36 PM	23333
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	1/23/2016 2:26:36 PM	23333

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 1601766

Date Reported: 1/26/2016

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COPC Phillips 2E

Collection Date: 1/20/2016 12:45:00 PM

Lab ID: 1601766-002

Matrix: SOIL

Received Date: 1/21/2016 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/22/2016 1:37:04 PM	23338
Surr: DNOP	108	70-130		%REC	1	1/22/2016 1:37:04 PM	23338
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/23/2016 3:40:08 PM	23333
Surr: BFB	87.7	66.2-112		%REC	1	1/23/2016 3:40:08 PM	23333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	1/23/2016 3:40:08 PM	23333
Toluene	ND	0.048		mg/Kg	1	1/23/2016 3:40:08 PM	23333
Ethylbenzene	ND	0.048		mg/Kg	1	1/23/2016 3:40:08 PM	23333
Xylenes, Total	ND	0.097		mg/Kg	1	1/23/2016 3:40:08 PM	23333
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	1/23/2016 3:40:08 PM	23333

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 1601766

Date Reported: 1/26/2016

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: COPC Phillips 2E

Collection Date: 1/20/2016 2:09:00 PM

Lab ID: 1601766-003

Matrix: SOIL

Received Date: 1/21/2016 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/22/2016 1:58:27 PM	23338
Surr: DNOP	101	70-130		%REC	1	1/22/2016 1:58:27 PM	23338
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/23/2016 4:54:04 PM	23333
Surr: BFB	92.1	66.2-112		%REC	1	1/23/2016 4:54:04 PM	23333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	1/23/2016 4:54:04 PM	23333
Toluene	ND	0.049		mg/Kg	1	1/23/2016 4:54:04 PM	23333
Ethylbenzene	ND	0.049		mg/Kg	1	1/23/2016 4:54:04 PM	23333
Xylenes, Total	ND	0.098		mg/Kg	1	1/23/2016 4:54:04 PM	23333
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	1/23/2016 4:54:04 PM	23333

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 1601766

Date Reported: 1/26/2016

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: COPC Phillips 2E

Collection Date: 1/20/2016 1:18:00 PM

Lab ID: 1601766-004

Matrix: SOIL

Received Date: 1/21/2016 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	38	9.9		mg/Kg	1	1/21/2016 10:37:12 AM	23323
Surr: DNOP	95.0	70-130		%REC	1	1/21/2016 10:37:12 AM	23323
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	1/21/2016 10:07:59 AM	23316
Surr: BFB	92.4	66.2-112		%REC	1	1/21/2016 10:07:59 AM	23316
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.042		mg/Kg	1	1/21/2016 10:07:59 AM	23316
Toluene	ND	0.042		mg/Kg	1	1/21/2016 10:07:59 AM	23316
Ethylbenzene	ND	0.042		mg/Kg	1	1/21/2016 10:07:59 AM	23316
Xylenes, Total	ND	0.084		mg/Kg	1	1/21/2016 10:07:59 AM	23316
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	1/21/2016 10:07:59 AM	23316

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 1601766

Date Reported: 1/26/2016

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC Phillips 2E

Collection Date: 1/20/2016 10:24:00 AM

Lab ID: 1601766-005

Matrix: SOIL

Received Date: 1/21/2016 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	81	9.7		mg/Kg	1	1/21/2016 11:25:57 AM	23323
Surr: DNOP	109	70-130		%REC	1	1/21/2016 11:25:57 AM	23323
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	31	4.0		mg/Kg	1	1/21/2016 11:17:40 AM	23316
Surr: BFB	379	66.2-112	S	%REC	1	1/21/2016 11:17:40 AM	23316
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.040		mg/Kg	1	1/21/2016 11:17:40 AM	23316
Toluene	ND	0.040		mg/Kg	1	1/21/2016 11:17:40 AM	23316
Ethylbenzene	0.26	0.040		mg/Kg	1	1/21/2016 11:17:40 AM	23316
Xylenes, Total	1.1	0.080		mg/Kg	1	1/21/2016 11:17:40 AM	23316
Surr: 4-Bromofluorobenzene	127	80-120	S	%REC	1	1/21/2016 11:17:40 AM	23316

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 1601766

Date Reported: 1/26/2016

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project: COPC Phillips 2E

Collection Date: 1/20/2016 10:52:00 AM

Lab ID: 1601766-006

Matrix: SOIL

Received Date: 1/21/2016 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	1/22/2016 2:19:42 PM	23338
Surr: DNOP	93.3	70-130		%REC	1	1/22/2016 2:19:42 PM	23338
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/23/2016 5:18:35 PM	23333
Surr: BFB	91.6	66.2-112		%REC	1	1/23/2016 5:18:35 PM	23333
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	1/23/2016 5:18:35 PM	23333
Toluene	ND	0.047		mg/Kg	1	1/23/2016 5:18:35 PM	23333
Ethylbenzene	ND	0.047		mg/Kg	1	1/23/2016 5:18:35 PM	23333
Xylenes, Total	ND	0.095		mg/Kg	1	1/23/2016 5:18:35 PM	23333
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	1/23/2016 5:18:35 PM	23333

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#: 1601766

26-Jan-16

Client: Animas Environmental

Project: COPC Phillips 2E

Sample ID	MB-23323	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23323	RunNo:	31581					
Prep Date:	1/21/2016	Analysis Date:	1/21/2016	SeqNo:	966720	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.1		10.00		90.8	70	130			

Sample ID	LCS-23323	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23323	RunNo:	31581					
Prep Date:	1/21/2016	Analysis Date:	1/21/2016	SeqNo:	966721	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.2	65.8	136			
Surr: DNOP	4.2		5.000		83.8	70	130			

Sample ID	MB-23338	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	23338	RunNo:	31617					
Prep Date:	1/21/2016	Analysis Date:	1/22/2016	SeqNo:	967619	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.2		10.00		81.8	70	130			

Sample ID	LCS-23338	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	23338	RunNo:	31617					
Prep Date:	1/21/2016	Analysis Date:	1/22/2016	SeqNo:	967848	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.5	65.8	136			
Surr: DNOP	3.6		5.000		71.8	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#: 1601766

26-Jan-16

Client: Animas Environmental

Project: COPC Phillips 2E

Sample ID	MB-23316	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23316	RunNo:	31590					
Prep Date:	1/20/2016	Analysis Date:	1/21/2016	SeqNo:	967276	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	910		1000		90.5	66.2	112			

Sample ID	LCS-23316	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23316	RunNo:	31590					
Prep Date:	1/20/2016	Analysis Date:	1/21/2016	SeqNo:	967277	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	79.6	122			
Surr: BFB	1000		1000		101	66.2	112			

Sample ID	MB-23333	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	23333	RunNo:	31633					
Prep Date:	1/21/2016	Analysis Date:	1/23/2016	SeqNo:	967928	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	890		1000		88.8	66.2	112			

Sample ID	LCS-23333	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	23333	RunNo:	31633					
Prep Date:	1/21/2016	Analysis Date:	1/23/2016	SeqNo:	967930	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	102	79.6	122			
Surr: BFB	1000		1000		104	66.2	112			

Sample ID	1601766-002AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-2	Batch ID:	23333	RunNo:	31633					
Prep Date:	1/21/2016	Analysis Date:	1/23/2016	SeqNo:	967935	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.30	0	101	59.3	143			
Surr: BFB	1000		971.8		103	66.2	112			

Sample ID	1601766-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-2	Batch ID:	23333	RunNo:	31633					
Prep Date:	1/21/2016	Analysis Date:	1/23/2016	SeqNo:	967937	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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#: 1601766

26-Jan-16

Client: Animas Environmental

Project: COPC Phillips 2E

Sample ID	1601766-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-2	Batch ID:	23333	RunNo:	31633					
Prep Date:	1/21/2016	Analysis Date:	1/23/2016	SeqNo:	967937	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.22	0	94.6	59.3	143	7.03	20	
Surr: BFB	980		969.0		101	66.2	112	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#: 1601766

26-Jan-16

Client: Animas Environmental

Project: COPC Phillips 2E

Sample ID	MB-23316		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	23316		RunNo:	31590			
Prep Date:	1/20/2016		Analysis Date:	1/21/2016		SeqNo:	967296		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	1.1		1.000		107	80	120			

Sample ID	LCS-23316		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	23316		RunNo:	31590			
Prep Date:	1/20/2016		Analysis Date:	1/21/2016		SeqNo:	967298		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.050	1.000	0	90.3	80	120			
Toluene	0.93	0.050	1.000	0	93.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID	MB-23333		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	23333		RunNo:	31633			
Prep Date:	1/21/2016		Analysis Date:	1/23/2016		SeqNo:	967971		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		104	80	120			

Sample ID	LCS-23333		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	23333		RunNo:	31633			
Prep Date:	1/21/2016		Analysis Date:	1/23/2016		SeqNo:	967972		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	106	80	120			
Toluene	1.2	0.050	1.000	0	116	80	120			
Ethylbenzene	1.1	0.050	1.000	0	114	80	120			
Xylenes, Total	3.5	0.10	3.000	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601766

26-Jan-16

Client: Animas Environmental

Project: COPC Phillips 2E

Sample ID	1601766-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	23333	RunNo:	31633					
Prep Date:	1/21/2016	Analysis Date:	1/23/2016	SeqNo:	967974	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	0.9901	0	96.4	71.5	122			
Toluene	1.0	0.050	0.9901	0	104	71.2	123			
Ethylbenzene	0.99	0.050	0.9901	0	100	75.2	130			
Xylenes, Total	3.0	0.099	2.970	0	102	72.4	131			
Surr: 4-Bromofluorobenzene	1.2		0.9901		117	80	120			

Sample ID	1601766-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	23333	RunNo:	31633					
Prep Date:	1/21/2016	Analysis Date:	1/23/2016	SeqNo:	967975	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.049	0.9881	0	98.3	71.5	122	1.71	20	
Toluene	1.0	0.049	0.9881	0	106	71.2	123	1.59	20	
Ethylbenzene	1.0	0.049	0.9881	0	105	75.2	130	4.02	20	
Xylenes, Total	3.1	0.099	2.964	0	106	72.4	131	3.68	20	
Surr: 4-Bromofluorobenzene	1.2		0.9881		118	80	120	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



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: 1601766

RcptNo: 1

Received by/date: JA 01/21/16

Logged By: Anne Thorne 1/21/2016 8:15:00 AM

Completed By: Anne Thorne 1/21/2016

Reviewed By: IO 01/21/16

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: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				

Chain-of-Custody Record Int: <u>Animas Environmental Services</u>	Turn-Around Time: <u>See Remarks</u> <input type="checkbox"/> Standard <input type="checkbox"/> Rush
---	---

Turn-Around Time: *See Remarks*

☐ Standard ☐ Rush

Project Name:

COPC Phillips 2E

Project #:

Project Manager:

F. Skyles

Sampler: E. Skyles

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

Container Type and #	Preservative Type
-------------------------	----------------------

HEAL No.

11201766

1-402	cond
-------	------

1-4a	and
------	-----

1-4/52	5-8
--------	-----

1-14-7	1/11/11
--------	---------

1-4 oz / mol	and / M, A
--------------	------------

1-407	col
-------	-----

Received by: Shirley Walte

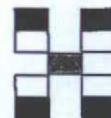
Date	Time
1/20/11	1724

Received by: *J. E. R. R.*

Date Time
01/21/16 0815

Remarks: Bill to Conoco Phillips Area: 22
ordered by: Lisa Hunter

Please Run SC-4 and SC-5 as same day.
All other Samples are standard



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

æ:	Time:	Relinquished by:
D/112	1724	E. L. S. L.

Time:	Relinquished by:
1844	Amelia Ward

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.