OIL CONS. DIV DIST. 3

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

JUL 08 2016

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 258-1607**
Facility Name: **Hamner 3E**	Facility Type: **Gas Well**

Surface Owner **Federal**	Mineral Owner **Federal**	API No. **3004524800**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	**29**	**29N**	**09W**	**970**	**South**	**870**	**West**	**San Juan**

Latitude 36.69238 Longitude -107. 80981

NATURE OF RELEASE

Type of Release **Historic Contamination (Hydrocarbon/Produced Water)**	Volume of Release **Unknown**	Volume Recovered **660 cyds**
Source of Release **Production Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **March 23, 2016**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **N/A**	
By Whom? **N/A**	Date and Hour **N/A**	
Was a Watercourse Reached? ☐ Yes ☒ 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 was discovered underneath Production Tank during Plug & Abandon activities. Third-part environmental assessed and delineated for remediation.

Describe Area Affected and Cleanup Action Taken.*
Historical hydrocarbon impacted soil was found beneath the Production Tank during the P&A activities for the subject well. The excavation was 45' x 40' x 15' in depth and 660 yds of soil was transported to IEI land farm. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: **Lisa Hunter**		
Title: **Field Environmental Specialist**	Approval Date: 8/3/2016	Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval:	Attached ☐
Date: **July 1, 2016** Phone: **(505) 258-1607**	NVF1621642953	

* Attach Additional Sheets If Necessary

28

May 26, 2016

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

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

RE: Release Assessment and Final Excavation Report
Hamner 3E
San Juan County, New Mexico

Dear Ms. Hunter:

On March 24 and May 4, 2016, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Hamner 3E, located in San Juan County, New Mexico. The release consisted of contamination found beneath the production tank during plugging and abandonment activities at the location. The initial release assessment was completed by AES on March 24, 2016, and the final excavation was completed by COPC contractors while AES was at the location on May 4, 2016.

1.0 Site Information

1.1 Location

Site Name – Hamner 3E
Location – SW¼ SW¼, Section 29, T29N, R9W, San Juan County, New Mexico
Well Head Latitude/Longitude – N36.69212 and W107.80954, respectively
Release Location Latitude/Longitude – N36.69238 and W107.80981, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, March 2016

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

1911 Main, Ste 200
Durango, CO 81301
970-403-3084

www.animasenvironmental.com

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 20 based on the following factors:

- **Depth to Groundwater:** A site-specific hydrogeology report dated September 2008 reported the depth to groundwater as 233 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The tank location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Unnamed washes which discharge to the San Juan River are located approximately 65 feet west and 145 feet southwest of the location. (20 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of COPC on March 23, 2016, and on March 24, 2016, Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field sampling of 15 soil samples from six assessment trenches in and around the release area. Assessment trenches were terminated between 6.5 and 8 feet. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On May 4, 2016, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of seven confirmation soil samples (SC-1 through SC-7) from the walls and base of the excavation. The area of the final excavation measured approximately 43 feet by 57 feet by 8 to 18 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 15 soil samples from six assessment trenches (TH-1 through TH-6) and seven composite samples (SC-1 through SC-7) 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). Seven composite samples (SC-1 and SC-7) collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Seven 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 March 24, 2016, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in TH-2, TH-3, TH-5, and TH-6 up to 5,473 ppm in TH-1. Field TPH concentrations ranged from less than 20.0 mg/kg in TH-2, TH-5, and TH-6 up to 7,950 mg/kg in TH-3.

On May 4, 2016, final excavation field screening results for VOCs via OVM ranged from 0.0 ppm in SC-2 and SC-4 up to 793 ppm in SC-1. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-2, SC-5, and SC-6 up to 161 mg/kg in SC-1. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs and TPH Results
Hamner 3E Initial Release Assessment and Final Excavation
March and May 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
*NMOCD Action Level**			*100*	*100*
TH-1	3/24/16	5	**4,752**	NA
		6.5	**5,473**	**589**
TH-2	3/24/16	1	0.0	NA
		4	0.0	NA
		6.5	0.0	<20.0
TH-3	3/24/16	1	0.0	NA
		4	0.0	NA
		7.5	**2,465**	**7,950**
TH-4	3/24/16	1	3.4	NA
		4	2.6	NA
		8	**492**	84.9
TH-5	3/24/16	4	0.0	NA
		6.5	0.0	<20.0
TH-6	3/24/16	4	0.0	NA
		6.5	0.0	<20.0
SC-1	5/4/16	0 to 18	**793**	**161**
SC-2	5/4/16	0 to 8	0.0	<20.0
SC-3	5/4/16	0 to 18	17.4	23.4
SC-4	5/4/16	0 to 18	0.0	26.6
SC-5	5/4/16	8 to 18	2.1	<20.0
SC-6	5/4/16	18.0	4.7	<20.0
SC-7	5/4/16	8.0	30.3	41.2

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-7 were used to confirm field sampling results from the final excavation. Benzene concentrations were reported below laboratory detection limits in SC-1 through SC-7 and total BTEX concentrations ranged from below laboratory

detection limits of 0.136 mg/kg (SC-2) up to 1.43 mg/kg (SC-1). TPH concentrations as GRO/DRO were reported from below the laboratory detection limits of 12.2 mg/kg (SC-3) up to 63 mg/kg (SC-1). 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
Hamner 3E Initial Release Assessment and Final Excavation
March and May 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	5/4/16	0 to 18	<0.016	1.43	31	32
SC-2	5/4/16	0 to 8	<0.015	<0.136	<3.0	<10
SC-3	5/4/16	0 to 18	<0.016	<0.141	<3.1	<9.1
SC-4	5/4/16	0 to 18	<0.016	<0.141	<3.1	<9.5
SC-5	5/4/16	8 to 18	<0.016	<0.147	<3.3	<9.8
SC-6	5/4/16	18.0	<0.026	<0.230	<5.2	<9.4
SC-7	5/4/16	8.0	<0.020	<0.181	<4.0	26

*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 March 24, 2016, AES conducted an initial assessment of petroleum contaminated soils associated with contamination found beneath the production tank during plugging and abandonment activities at the Hamner 3E. 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 20.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in TH-1, TH-3, and TH-4. The highest VOC concentration was reported in TH-1 with 5,473 ppm, and the highest TPH concentration was reported in TH-3 with 7,950 mg/kg. Based on the results of the initial assessment, excavation of impacted soils was recommended.

On May 4, 2016, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls and base of the excavation, except for SC-1 (north

wall) which had a VOC concentration of 793 ppm. 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-1 (north wall) which had a TPH concentration of 161 mg/kg. However, laboratory analytical results reported benzene, total BTEX, and TPH concentrations as GRO/DRO in SC-1 through SC-7 below NMOCD action levels.

Based on final field sampling of the excavation of petroleum contaminated soils at the Hamner 3E, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation, with the exception of SC-1 (north wall) for VOCs and TPH; however, confirmation laboratory analytical results reported results below NMOCD action levels. No further work is recommended.

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

Sincerely,

Delilah T. Dougi
Geologist

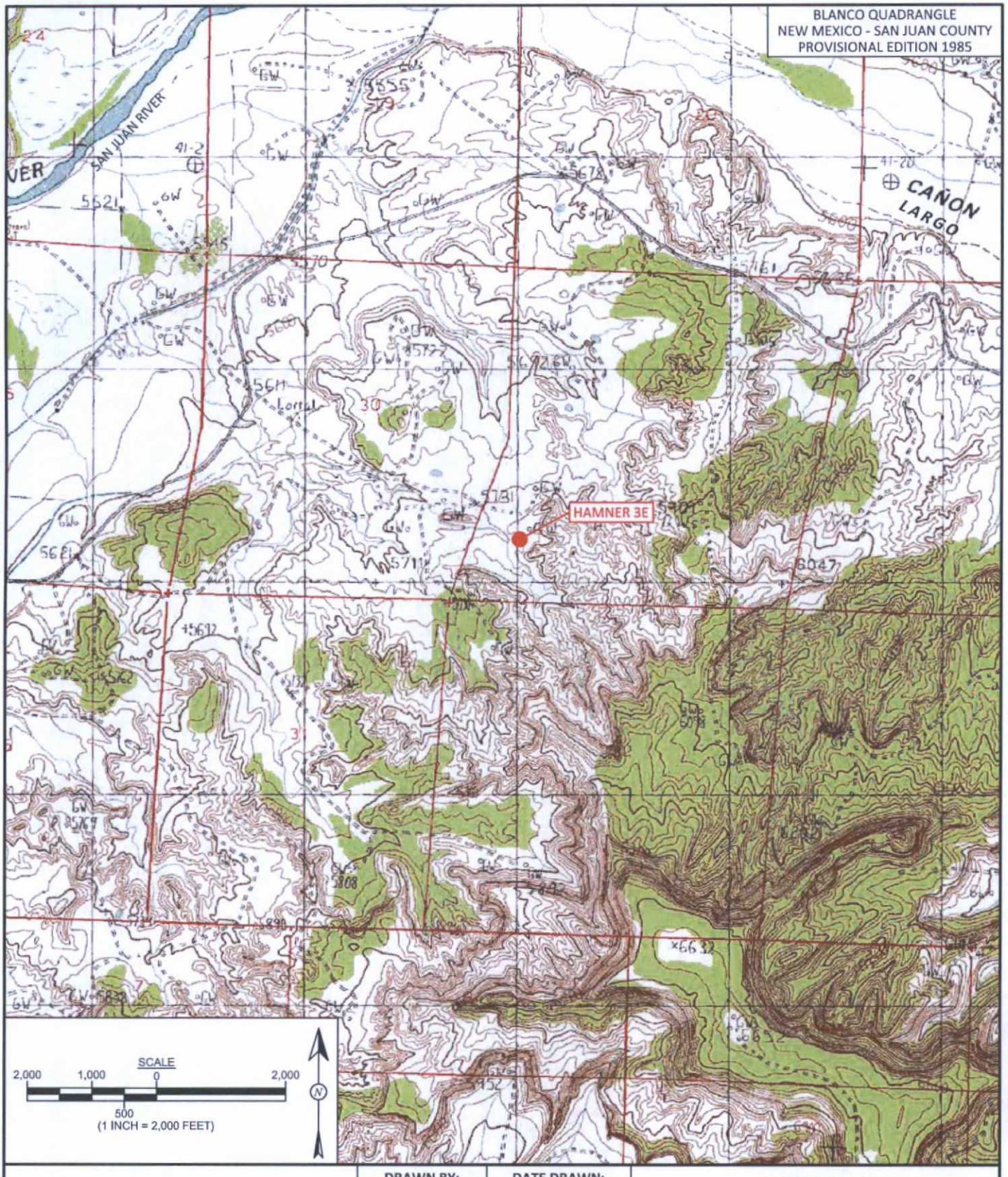
Emilee Skyles
Geologist/Project Lead

Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2016
- Figure 3. Release Assessment Sample Locations and Results, March 2016
- Figure 4. Final Excavation Sample Locations and Results, May 2016
- AES Field Sampling Report 032416
- AES Field Sampling Report 050416
- Hall Laboratory Analytical Report 1605189

C:\Users\eskyles\Dropbox (Animas Environmental)\2016 Client Projects\ConocoPhillips\Hamner 3E\Release\Hamner 3E Release and Final Excavation Report 051116 DTD ems EM.docx



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DRAWN BY: S. Glasses	**DATE DRAWN:** April 13, 2016
REVISIONS BY: C. Lameman	**DATE REVISED:** May 11, 2016
CHECKED BY: E. Skyles	**DATE CHECKED:** May 11, 2016
APPROVED BY: E. McNally	**DATE APPROVED:** May 11, 2016

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
HAMNER 3E
SW¼ SW¼, SECTION 29, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.69212, W107.80954

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DRAWN BY: S. Glasses	**DATE DRAWN:** April 13, 2016
REVISIONS BY: C. Lameman	**DATE REVISED:** May 11, 2016
CHECKED BY: E. Skyles	**DATE CHECKED:** May 11, 2016
APPROVED BY: E. McNally	**DATE APPROVED:** May 11, 2016

FIGURE 2

AERIAL SITE MAP
MARCH 2016
ConocoPhillips
HAMNER 3E
SW¼ SW¼, SECTION 29, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.69212, W107.80954

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
TH-1	3/24/16	5.0	4,752	NA
		6.5	5,473	589
TH-2	3/24/16	1.0	0.0	NA
		4.0	0.0	NA
		6.5	0.0	<20.0
TH-3	3/24/16	1.0	0.0	NA
		4.0	0.0	NA
		7.5	2,465	7,950
TH-4	3/24/16	1.0	3.4	NA
		4.0	2.6	NA
		8.0	492	84.9
TH-5	3/24/16	4.0	0.0	NA
		6.5	0.0	<20.0
TH-6	3/24/16	4.0	0.0	NA
		6.5	0.0	<20.0

NA - NOT ANALYZED

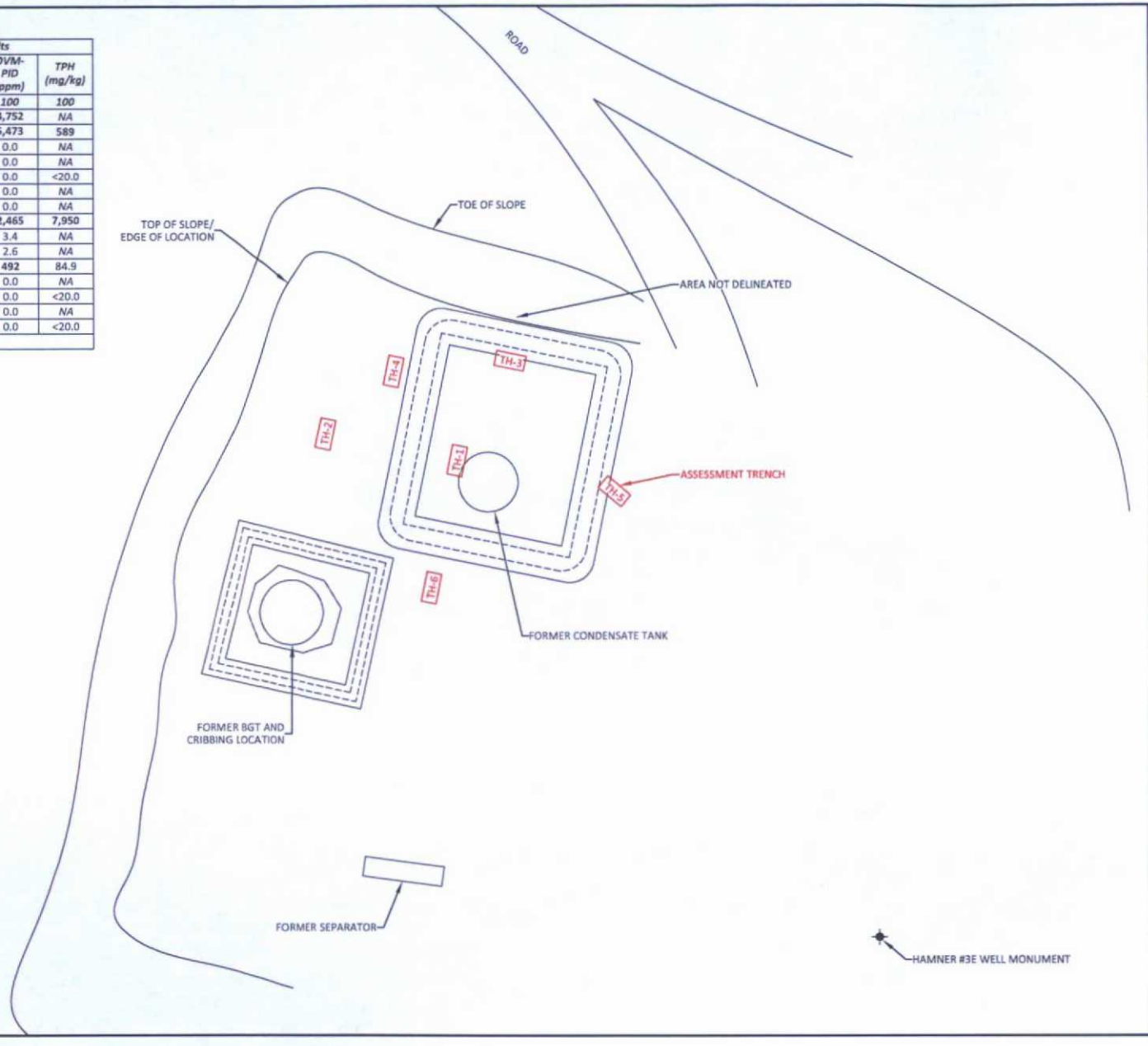

FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS
MARCH 2016
ConocoPhillips
HAMNER #3E
SW1/4 SW1/4, SECTION 29, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.69212, W107.80954

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DRAWN BY:	DATE DRAWN:
C. Lameman	March 24, 2016
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 9, 2016
CHECKED BY:	**DATE CHECKED:**
E. Skyles	May 9, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 9, 2016

LEGEND

FORMER SECONDARY CONTAINMENT BERM

—x— FENCE

N

SCALE

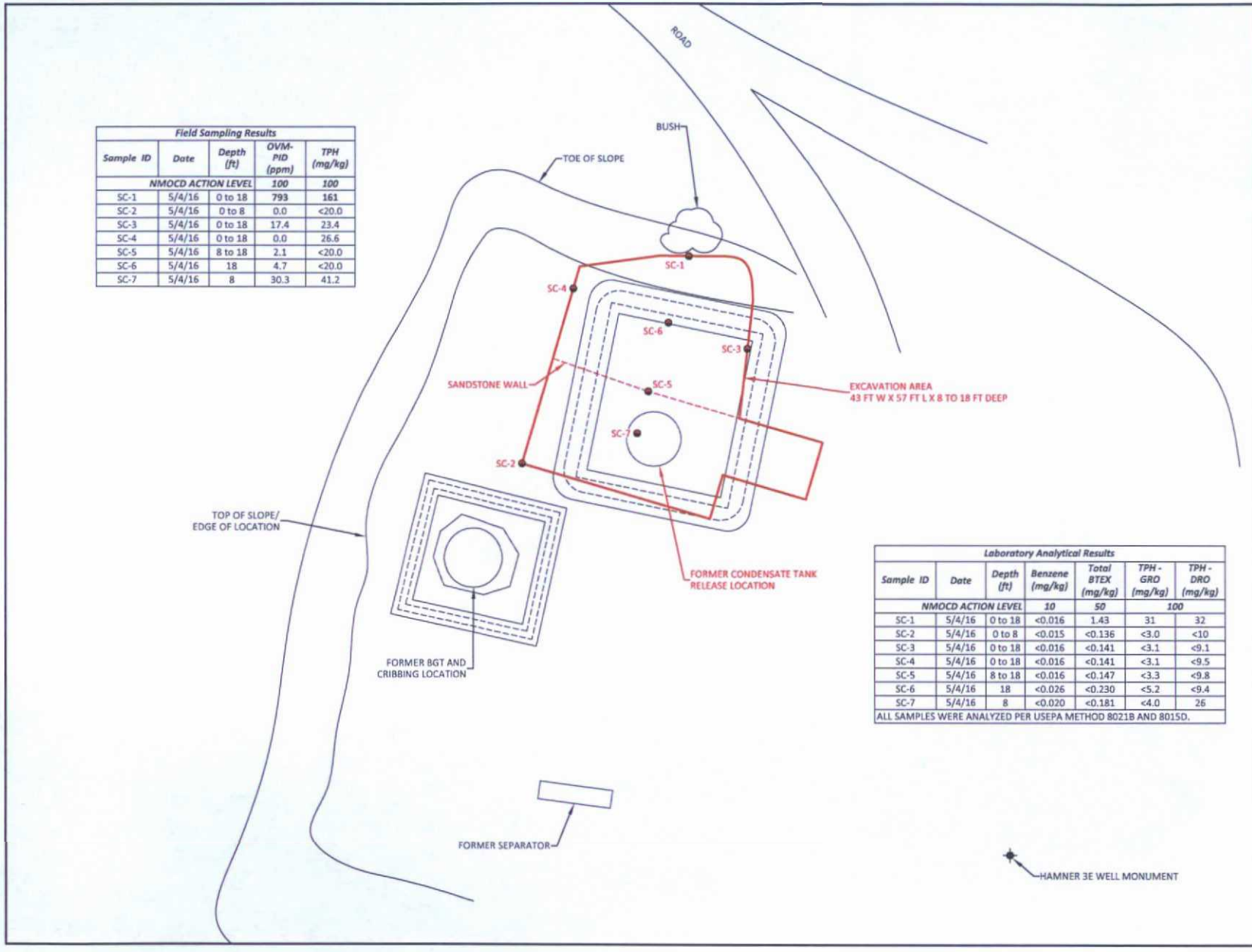
20 10 0 20

5

(1 INCH = 20 FEET)

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
MAY 2016
ConocoPhillips
HAMNER 3E
SW¼ SW¼, SECTION 29, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.69212, W107.80954



Field Sampling Results

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	5/4/16	0 to 18	793	161
SC-2	5/4/16	0 to 8	0.0	<20.0
SC-3	5/4/16	0 to 18	17.4	23.4
SC-4	5/4/16	0 to 18	0.0	26.6
SC-5	5/4/16	8 to 18	2.1	<20.0
SC-6	5/4/16	18	4.7	<20.0
SC-7	5/4/16	8	30.3	41.2

Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
SC-1	5/4/16	0 to 18	<0.016	1.43	31	32
SC-2	5/4/16	0 to 8	<0.015	<0.136	<3.0	<10
SC-3	5/4/16	0 to 18	<0.016	<0.141	<3.1	<9.1
SC-4	5/4/16	0 to 18	<0.016	<0.141	<3.1	<9.5
SC-5	5/4/16	8 to 18	<0.016	<0.147	<3.3	<9.8
SC-6	5/4/16	18	<0.026	<0.230	<5.2	<9.4
SC-7	5/4/16	8	<0.020	<0.181	<4.0	26

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

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DRAWN BY:	DATE DRAWN:
C. Lameman	May 9, 2016
REVISIONS BY:	**DATE REVISED:**
C. Lameman	May 11, 2016
CHECKED BY:	**DATE CHECKED:**
E. Skyles	May 11, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	May 11, 2016

LEGEND
- SAMPLE LOCATIONS
- FORMER SECONDARY CONTAINMENT BERM

SCALE
20 10 0 20
5
(1 INCH = 20 FEET)

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Hamner 3E

Date: 3/24/2016

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
TH-1 @ 5'	3/24/2016	9:00	4,752	*Not Analyzed for TPH*				
TH-1 @ 6.5'	3/24/2016	9:05	5,473	589	9:32	20.0	1	CL
TH-2 @ 1'	3/24/2016	9:33	0.0	*Not Analyzed for TPH*				
TH-2 @ 4'	3/24/2016	9:38	0.0	*Not Analyzed for TPH*				
TH-2 @ 6.5'	3/24/2016	9:42	0.0	6.39	10:45	20.0	1	CL
TH-3 @ 1'	3/24/2016	9:49	0.0	*Not Analyzed for TPH*				
TH-3 @ 4'	3/24/2016	9:52	0.0	*Not Analyzed for TPH*				
TH-3 @ 7.5'	3/24/2016	9:55	2,465	7,946	10:53	200	10	CL
TH-4 @ 1'	3/24/2016	10:00	3.4	*Not Analyzed for TPH*				
TH-4 @ 4'	3/24/2016	10:03	2.6	*Not Analyzed for TPH*				
TH-4 @ 8'	3/24/2016	10:05	492	84.9	10:58	20.0	1	CL
TH-5 @ 4'	3/24/2016	11:07	0.0	*Not Analyzed for TPH*				
TH-5 @ 6.5'	3/24/2016	11:10	0.0	9.73	11:41	20.0	1	CL

Report Finalized: 3/24/16

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-6 @ 4'	3/24/2016	11:18	0.0	*Not Analyzed for TPH*				
TH-6 @ 6.5'	3/24/2016	11:20	0.0	14.7	11:44	20.0	1	CL

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

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: 

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Hamner 3E

Date: 5/4/2016

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	5/4/2016	10:45	North Wall	793	161	12:42	20.0	1	CL
SC-2	5/4/2016	13:35	S & W Wall	0.0	18.5	13:56	20.0	1	CL
SC-3	5/4/2016	11:34	East Wall	17.4	23.4	12:50	20.0	1	CL
SC-4	5/4/2016	11:05	West Wall	0.0	26.6	12:54	20.0	1	CL
SC-5	5/4/2016	11:15	Mid-Wall	2.1	15.3	12:58	20.0	1	CL
SC-6	5/4/2016	11:25	North Base	4.7	16.9	13:02	20.0	1	CL
SC-7	5/4/2016	11:38	South Base	30.3	41.2	13:06	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: Cori Lu

Report Finalized: 5/4/2016

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 09, 2016

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

RE: Hamner 3E OrderNo.: 1605189

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/5/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1605189**
Date Reported: **5/9/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-1
Project: Hamner 3E
Collection Date: 5/4/2016 10:45:00 AM
Lab ID: 1605189-001
Matrix: MEOH (SOIL)
Received Date: 5/5/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	32	10		mg/Kg	1	5/5/2016 12:37:34 PM	25161
Surr: DNOP	85.2	70-130		%Rec	1	5/5/2016 12:37:34 PM	25161
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	31	3.1		mg/Kg	1	5/5/2016 2:29:32 PM	25154
Surr: BFB	289	80-120	S	%Rec	1	5/5/2016 2:29:32 PM	25154
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	5/5/2016 2:29:32 PM	25154
Toluene	0.064	0.031		mg/Kg	1	5/5/2016 2:29:32 PM	25154
Ethylbenzene	0.068	0.031		mg/Kg	1	5/5/2016 2:29:32 PM	25154
Xylenes, Total	1.3	0.063		mg/Kg	1	5/5/2016 2:29:32 PM	25154
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	5/5/2016 2:29:32 PM	25154

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-2
Project: Hamner 3E
Collection Date: 5/4/2016 1:35:00 PM
Lab ID: 1605189-002
Matrix: MEOH (SOIL)
Received Date: 5/5/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/5/2016 12:59:22 PM	25161
Surr: DNOP	90.7	70-130		%Rec	1	5/5/2016 12:59:22 PM	25161
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	5/5/2016 2:53:02 PM	25154
Surr: BFB	103	80-120		%Rec	1	5/5/2016 2:53:02 PM	25154
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	5/5/2016 2:53:02 PM	25154
Toluene	ND	0.030		mg/Kg	1	5/5/2016 2:53:02 PM	25154
Ethylbenzene	ND	0.030		mg/Kg	1	5/5/2016 2:53:02 PM	25154
Xylenes, Total	ND	0.061		mg/Kg	1	5/5/2016 2:53:02 PM	25154
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	5/5/2016 2:53:02 PM	25154

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-3
Project: Hamner 3E
Collection Date: 5/4/2016 11:34:00 AM
Lab ID: 1605189-003
Matrix: MEOH (SOIL)
Received Date: 5/5/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/5/2016 1:21:14 PM	25161
Surr: DNOP	85.8	70-130		%Rec	1	5/5/2016 1:21:14 PM	25161
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	5/5/2016 7:34:39 PM	25154
Surr: BFB	96.0	80-120		%Rec	1	5/5/2016 7:34:39 PM	25154
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	5/5/2016 7:34:39 PM	25154
Toluene	ND	0.031		mg/Kg	1	5/5/2016 7:34:39 PM	25154
Ethylbenzene	ND	0.031		mg/Kg	1	5/5/2016 7:34:39 PM	25154
Xylenes, Total	ND	0.063		mg/Kg	1	5/5/2016 7:34:39 PM	25154
Surr: 4-Bromofluorobenzene	95.9	80-120		%Rec	1	5/5/2016 7:34:39 PM	25154

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-4
Project: Hamner 3E
Collection Date: 5/4/2016 11:05:00 AM
Lab ID: 1605189-004
Matrix: MEOH (SOIL)
Received Date: 5/5/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/5/2016 1:44:43 PM	25161
Surr: DNOP	87.6	70-130		%Rec	1	5/5/2016 1:44:43 PM	25161
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	5/5/2016 7:57:59 PM	25154
Surr: BFB	93.7	80-120		%Rec	1	5/5/2016 7:57:59 PM	25154
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	5/5/2016 7:57:59 PM	25154
Toluene	ND	0.031		mg/Kg	1	5/5/2016 7:57:59 PM	25154
Ethylbenzene	ND	0.031		mg/Kg	1	5/5/2016 7:57:59 PM	25154
Xylenes, Total	ND	0.063		mg/Kg	1	5/5/2016 7:57:59 PM	25154
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	5/5/2016 7:57:59 PM	25154

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-5
Project: Hamner 3E
Collection Date: 5/4/2016 11:15:00 AM
Lab ID: 1605189-005
Matrix: MEOH (SOIL)
Received Date: 5/5/2016 7:15:00 AM

Analyses	Result	PQL	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	5/5/2016 2:06:33 PM	25161
Surr: DNOP	89.6	70-130		%Rec	1	5/5/2016 2:06:33 PM	25161
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/5/2016 8:21:28 PM	25154
Surr: BFB	95.3	80-120		%Rec	1	5/5/2016 8:21:28 PM	25154
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	5/5/2016 8:21:28 PM	25154
Toluene	ND	0.033		mg/Kg	1	5/5/2016 8:21:28 PM	25154
Ethylbenzene	ND	0.033		mg/Kg	1	5/5/2016 8:21:28 PM	25154
Xylenes, Total	ND	0.065		mg/Kg	1	5/5/2016 8:21:28 PM	25154
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	5/5/2016 8:21:28 PM	25154

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-6
Project: Hamner 3E
Collection Date: 5/4/2016 11:25:00 AM
Lab ID: 1605189-006
Matrix: MEOH (SOIL)
Received Date: 5/5/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/5/2016 2:28:19 PM	25161
Surr: DNOP	89.2	70-130		%Rec	1	5/5/2016 2:28:19 PM	25161
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	5/5/2016 8:44:57 PM	25154
Surr: BFB	96.5	80-120		%Rec	1	5/5/2016 8:44:57 PM	25154
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.026		mg/Kg	1	5/5/2016 8:44:57 PM	25154
Toluene	ND	0.052		mg/Kg	1	5/5/2016 8:44:57 PM	25154
Ethylbenzene	ND	0.052		mg/Kg	1	5/5/2016 8:44:57 PM	25154
Xylenes, Total	ND	0.10		mg/Kg	1	5/5/2016 8:44:57 PM	25154
Surr: 4-Bromofluorobenzene	96.2	80-120		%Rec	1	5/5/2016 8:44:57 PM	25154

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: Hamner 3E
Lab ID: 1605189-007
Matrix: MEOH (SOIL)
Client Sample ID: SC-7
Collection Date: 5/4/2016 11:38:00 AM
Received Date: 5/5/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	26	9.7		mg/Kg	1	5/5/2016 2:50:10 PM	25161
Surr: DNOP	80.3	70-130		%Rec	1	5/5/2016 2:50:10 PM	25161
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	5/5/2016 9:08:27 PM	25154
Surr: BFB	105	80-120		%Rec	1	5/5/2016 9:08:27 PM	25154
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	5/5/2016 9:08:27 PM	25154
Toluene	ND	0.040		mg/Kg	1	5/5/2016 9:08:27 PM	25154
Ethylbenzene	ND	0.040		mg/Kg	1	5/5/2016 9:08:27 PM	25154
Xylenes, Total	ND	0.081		mg/Kg	1	5/5/2016 9:08:27 PM	25154
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	5/5/2016 9:08:27 PM	25154

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1605189**

09-May-16

Client: Animas Environmental
Project: Hamner 3E

Sample ID	LCS-25161	SampType:	LCS			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS	Batch ID:	25161			RunNo:	34001			
Prep Date:	5/5/2016	Analysis Date:	5/5/2016			SeqNo:	1047693	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.8	65.8	136			
Surr: DNOP	4.1		5.000		82.7	70	130			

Sample ID	MB-25161	SampType:	MBLK			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS	Batch ID:	25161			RunNo:	34001			
Prep Date:	5/5/2016	Analysis Date:	5/5/2016			SeqNo:	1047694	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.5		10.00		85.0	70	130			

Sample ID	MB-25139	SampType:	MBLK			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS	Batch ID:	25139			RunNo:	34001			
Prep Date:	5/4/2016	Analysis Date:	5/5/2016			SeqNo:	1047876	Units:	%Rec	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.4		10.00		74.0	70	130			

Sample ID	1605189-001AMS	SampType:	MS			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	SC-1	Batch ID:	25161			RunNo:	34001			
Prep Date:	5/5/2016	Analysis Date:	5/5/2016			SeqNo:	1048342	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	9.2	46.08	31.59	59.2	33.9	141			
Surr: DNOP	3.7		4.608		80.4	70	130			

Sample ID	1605189-001AMSD	SampType:	MSD			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	SC-1	Batch ID:	25161			RunNo:	34001			
Prep Date:	5/5/2016	Analysis Date:	5/5/2016			SeqNo:	1048343	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	10	49.80	31.59	68.6	33.9	141	11.0	20	
Surr: DNOP	4.8		4.980		95.8	70	130	0	0	

Sample ID	LCS-25139	SampType:	LCS			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS	Batch ID:	25139			RunNo:	34001			
Prep Date:	5/4/2016	Analysis Date:	5/5/2016			SeqNo:	1048346	Units:	%Rec	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.0	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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1605189**

09-May-16

Client: Animas Environmental

Project: Hamner 3E

Sample ID **MB-25154**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **25154**	RunNo: **33999**
Prep Date: **5/4/2016**	Analysis Date: **5/5/2016**	SeqNo: **1048220** 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	950		1000		94.7	80	120			

Sample ID **LCS-25154**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **25154**	RunNo: **33999**
Prep Date: **5/4/2016**	Analysis Date: **5/5/2016**	SeqNo: **1048221** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.9	80	120			
Surr: BFB	1000		1000		104	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1605189**

09-May-16

Client: Animas Environmental
Project: Hamner 3E

Sample ID **MB-25154**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25154**	RunNo: **33999**
Prep Date: **5/4/2016**	Analysis Date: **5/5/2016**	SeqNo: **1048261** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	80	120			

Sample ID **LCS-25154**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25154**	RunNo: **33999**
Prep Date: **5/4/2016**	Analysis Date: **5/5/2016**	SeqNo: **1048262** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	75.3	123			
Toluene	0.91	0.050	1.000	0	90.9	80	124			
Ethylbenzene	0.90	0.050	1.000	0	90.0	82.8	121			
Xylenes, Total	2.7	0.10	3.000	0	89.9	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1605189 RcptNo: 1

Received by/date: 05/05/16

Logged By: Lindsay Mangin 5/5/2016 7:15:00 AM

Completed By: Lindsay Mangin 5/5/2016 7:36:59 AM

Reviewed By: AT 05/05/16

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? _____
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: _____

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services, LLC	Turn-Around Time: ☐ Standard X Rush ___ 3 day TAT ___
	Project Name: Hamner #3E
Mailing Address: 604 W Pinon St. Farmington, NM 87401	Project #: COPC Hamner #3E
Phone #: 505-564-2281	
Email or Fax#: eskyles@animasenvironmental.com	Project Manager: E. Skyles
QA/QC Package: X Standard ☐ Level 4 (Full Validation)	
Accreditation: ☐ NELAP ☐ Other ___ ☐ EDD (Type) ___	Sampler: C.Lameman On Ice: ☑ Yes ☐ No Sample Temperature: 1.6

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1605789	BTEX - 8021B	TPH - EPA 8015 GRO/DRO	Chlorides - 300.0	Air Bubbles (Y or N)
5/4/16	10:45	SOIL	SC-1	1 - 4 oz. MeOH kit	cool MeOH	-001	X	X		
5/4/16	13:35	SOIL	SC-2	1 - 4 oz. MeOH kit	cool MeOH	-002	X	X		
5/4/16	11:34	SOIL	SC-3	1 - 4 oz. MeOH kit	cool MeOH	-003	X	X		
5/4/16	11:05	SOIL	SC-4	1 - 4 oz. MeOH kit	cool MeOH	-004	X	X		
5/4/16	11:15	SOIL	SC-5	1 - 4 oz. MeOH kit	cool MeOH	-005	X	X		
5/4/16	11:25	SOIL	SC-6	1 - 4 oz. MeOH kit	cool MeOH	-006	X	X		
5/4/16	11:38	SOIL	SC-7	1 - 4 oz. MeOH kit	cool MeOH	-007	X	X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/4/16	1631		Christine Walls	5/4/16	1631
5/4/16	1740	Christine Walls		05/05/16	0715

Remarks: Bill to Conoco Phillips
WO # 10385151
Supervisor: Dusty Mars
USERID: KGARCIA
Area: 2
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.