

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

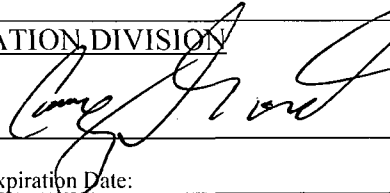
Name of Company Burlington Resources Oil & Gas Company	Contact Lindsay Dumas	RCRD OCT 7 '14
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 599-4089	OIL CONS. DIV.
Facility Name: Huerfano 73	Facility Type: Gas	DIST 3
Surface Owner BLM	Mineral Owner NM 01074	API No. 3004521405

LOCATION OF RELEASE

Unit Letter D	Section 01	Township 26N	Range 11W	Feet from the 800	North/South Line FNL	Feet from the 800	East/West Line FWL	County San Juan
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Latitude 36.52228 Longitude -107.961

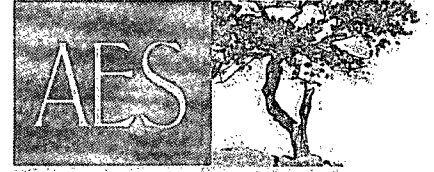
NATURE OF RELEASE

Type of Release Historic Contamination - condensate	Volume of Release Unknown	Volume Recovered 0
Source of Release 210 bbl condensate tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 7/18/2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Historic contamination was discovered beneath a 210 bbl condensate tank during facility reset activities on the location.		
Describe Area Affected and Cleanup Action Taken.* Excavation was 27' x 25' x 15' Deep. 388 c/yds of soil was transported to Envirotech Land Farm and 400 c/yds of clean soil was transported from Aztec Machine Co. and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature:	OIL CONSERVATION DIVISION	
Printed Name: Lindsay Dumas	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 11/21/14	Expiration Date:
E-mail Address: Lindsay.Dumas@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/2/2014	Phone: (505) 599-4089	

* Attach Additional Sheets If Necessary

#NCS 142 255 3568

30



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

September 26, 2014

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
Office 214-07
5525 Hwy 64
Farmington, New Mexico 87401

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

**RE: Initial Release Assessment and Final Excavation Report
Huerfano #73
San Juan County, New Mexico**

Dear Ms. Dumas:

On July 18 and August 12, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Huerfano #73, located in San Juan County, New Mexico. Historic contamination was discovered beneath a 210 barrel (bbl) condensate tank during facility reset activities at the location. The initial release assessment was completed by AES on July 18, 2014, and the final excavation was completed by CoP contractors while AES' was at the location on August 12, 2014.

1.0 Site Information

1.1 Location

Site Name – Huerfano #73

Location – NW¼ NW¼, Section 1, T26N, R11W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.52228 and W107.96159, respectively

Release Location Latitude/Longitude – N36.52250 and W107.96153, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, July 2014

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills,*

and Releases (August 1993) prior to site work. The release was given a ranking score of 10 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated May 1991 for the location reported the depth to groundwater at 140 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Approximately 300 feet to the south is an unnamed ephemeral wash that is a tributary to the wash in Gallegos Canyon. (10 points)

1.3 Assessment

AES was initially contacted by Jess Henson, CoP representative, on July 17, 2014, and on July 18, 2014, Deborah Watson of AES completed the release assessment field work. The assessment included collection and field sampling of 18 soil samples from 6 assessment trenches in and around the release area. Assessment trenches were terminated between 5 and 15 feet. Based on the field sampling results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On August 12, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples from the walls and base of the excavation. The area of the final excavation measured approximately 25 feet by 27 feet by 15 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 18 soil samples from 6 assessment trenches (TH-1 through TH-6) and 5 composite samples (SC-1 through SC-5) 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). The five composite samples collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

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

- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

In addition, soil sample SC-5 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B.

2.3 Field and Laboratory Analytical Results

On July 18, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 2.9 ppm in TH-6 up to 2,360 ppm in TH-1. Field TPH concentrations ranged from 36.7 mg/kg in TH-3 up to 8,380 mg/kg in TH-1.

On August 12, 2014, final excavation field screening results for VOCs via OVM ranged from 5.2 ppm in SC-3 up to 689 ppm in SC-5. Field TPH concentrations ranged from 39.2 mg/kg in SC-1 up to 124 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Field Sampling VOCs and TPH Results
Huerfano #73 Initial Release Assessment and Final Excavation
July and August 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>TPH 418.1 (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>100</i>	<i>1,000</i>
TH-1	7/18/14	3	2,360	8,380
		5	1,896	NA
		8	1,737	NA
		12	1,449	NA
		15	1,516	>2,500
TH-2	7/18/14	2	65.6	NA
		5	86.8	42.2
		8	52.1	NA
TH-3	7/18/14	2	7.4	36.7
		6	4.4	NA
		8	3.6	NA
TH-4	7/18/14	2	4.6	NA
		5	5.6	60.2
TH-5	7/18/14	2	4.1	NA
		6	5.2	54.7
TH-6	7/18/14	3	2.9	NA
		5.5	5.2	NA
		8	5.9	42.2
SC-1	8/12/14	1 to 15	7.5	39.2
SC-2	8/12/14	1 to 15	6.2	69.9
SC-3	8/12/14	1 to 15	5.2	51.9
SC-4	8/12/14	1 to 15	20.6	73.9
SC-5	8/12/14	15	689	124

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-5 were used to confirm field sampling results from the final excavation. Benzene and total BTEX concentrations in SC-5 were reported below laboratory detection limits of 0.052 mg/kg and 0.256 mg/kg, respectively. TPH concentrations as GRO/DRO in SC-1 through SC-4 were reported below laboratory detection limits of 14.7 mg/kg and 14.8 mg/kg, and TPH concentrations in SC-5 were reported at 5.1 mg/kg. Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Huerfano #73 Final Excavation, August 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>10</i>	<i>50</i>	<i>1,000</i>	
SC-1	8/12/14	1 to 15	NA	NA	<4.9	<9.9
SC-2	8/12/14	1 to 15	NA	NA	<4.8	<10
SC-3	8/12/14	1 to 15	NA	NA	<4.8	<9.9
SC-4	8/12/14	1 to 15	NA	NA	<4.8	<10
SC-5	8/12/14	15	<0.052	<0.256	5.1	<10

NA – not analyzed

*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 July 18, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with historic contamination beneath a condensate tank at the Huerfano #73. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in TH-1. The highest VOC concentration was reported in TH-1 with 2,360 ppm, and the highest TPH concentration was also reported in TH-1 with 8,380 mg/kg.

On August 12, 2014, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls of the excavation but above NMOCD

action levels for the excavation base (SC-5), which had a VOC concentration of 689 ppm. Field TPH concentrations were below the applicable NMOCD action level of 1,000 mg/kg for the final walls and base of the excavation. Laboratory analytical results reported benzene and total BTEX concentrations in SC-5 (excavation base) below NMOCD action levels, and TPH concentrations as GRO/DRO were reported below the applicable NMOCD action level in SC-1 through SC-5.

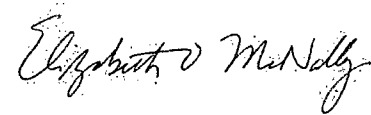
Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Huerfano #73, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,



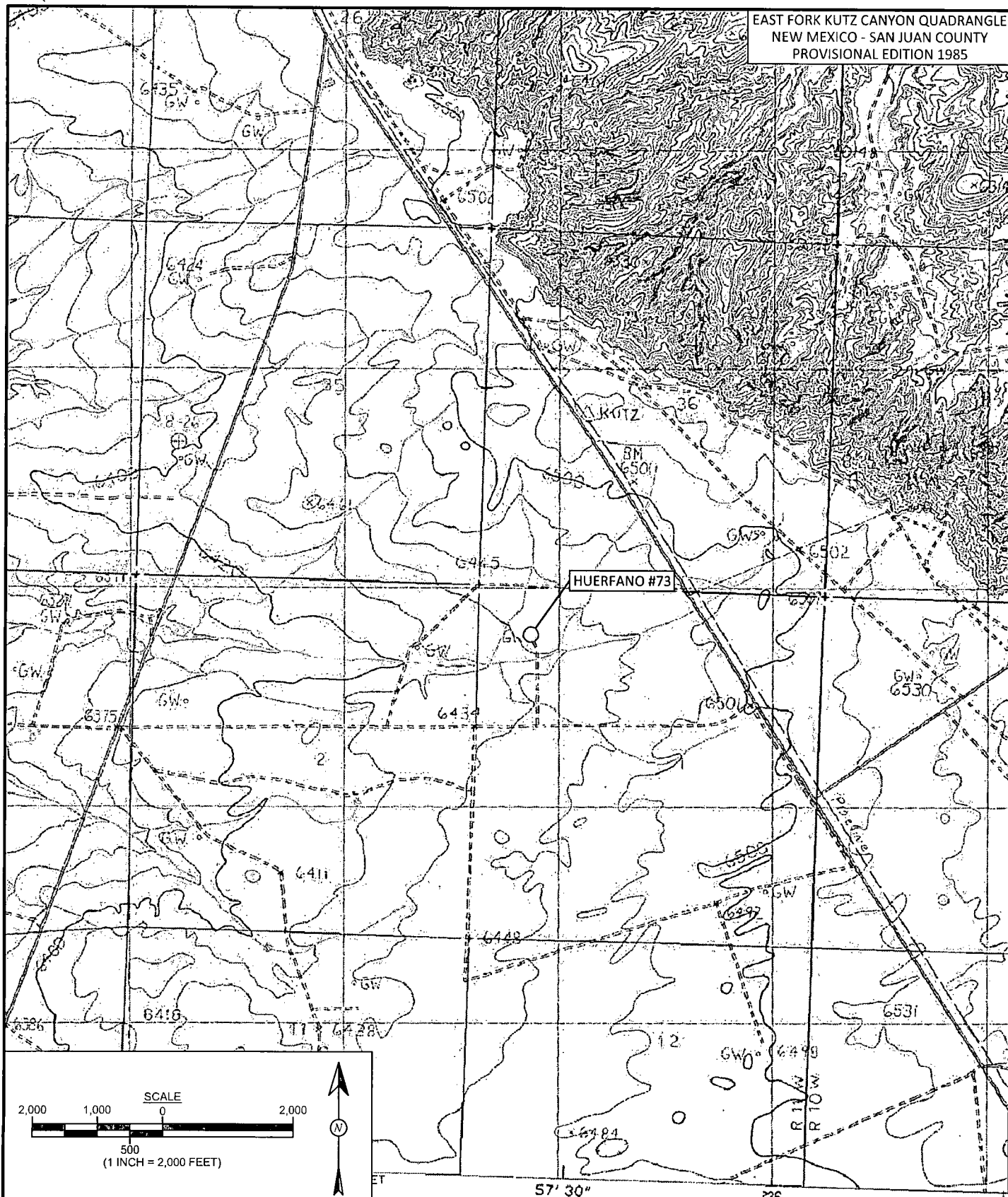
David J. Reese
Environmental Scientist



Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, July 2014
- Figure 3. Initial Assessment Sample Locations and Results, July 2014
- Figure 4. Final Excavation Sample Locations and Results, August 2014
- AES Field Sampling Report 071814
- AES Field Sampling Report 081214
- Hall Laboratory Analytical Report 1408567
- Hall Laboratory Analytical Report 1408574



Animas Environmental Services, LLC

DRAWN BY:

S. Glasses

DATE DRAWN:

July 18, 2014

REVISIONS BY:

C. Lameman

DATE REVISED:

July 18, 2014

CHECKED BY:

E. Skyles

DATE CHECKED:

July 18, 2014

APPROVED BY:

E. McNally

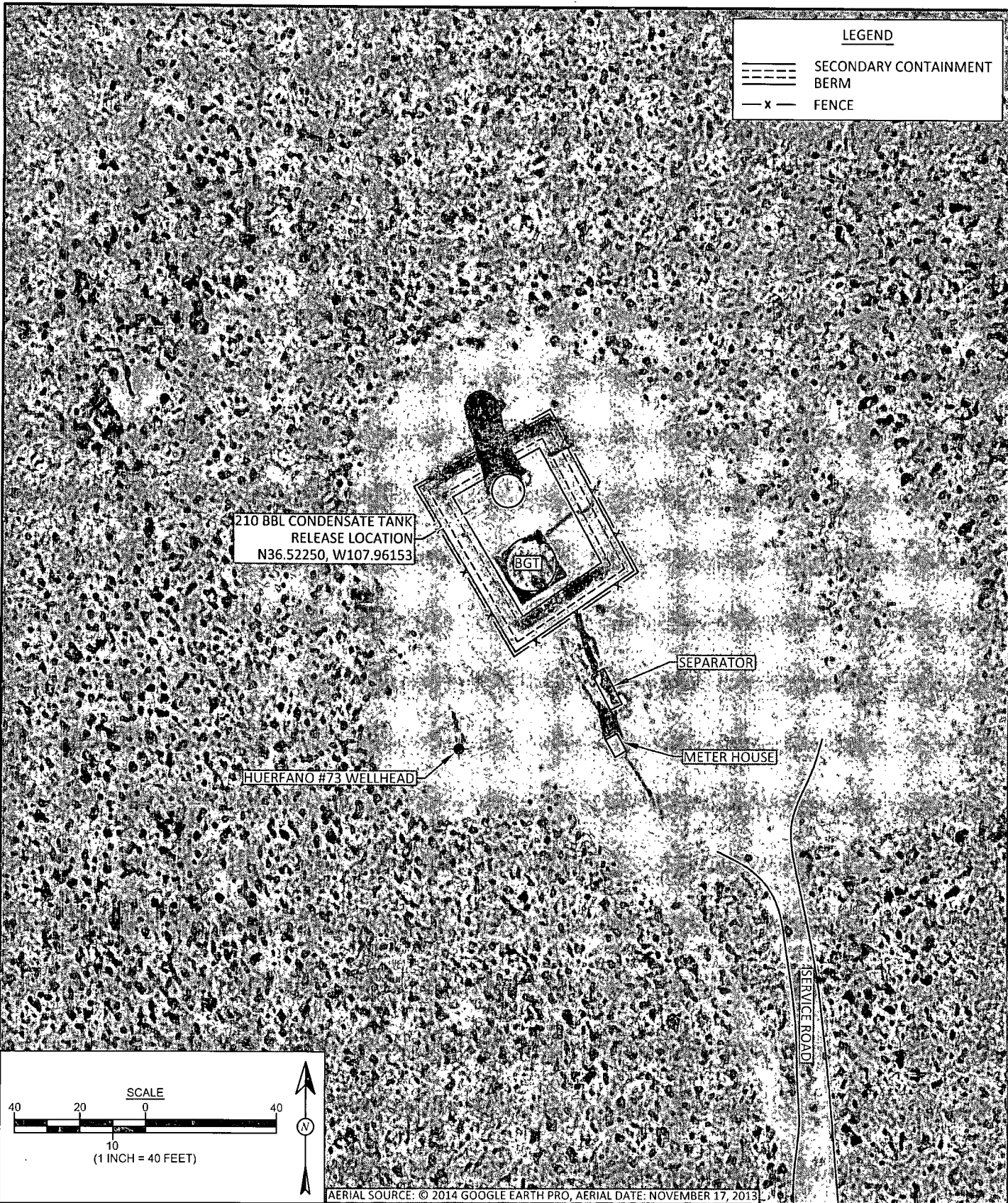
DATE APPROVED:

July 18, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
HUERFANO #73
NW¼ NW¼, SECTION 1, T26N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.52228, W107.96159



Animas Environmental Services, LLC

DRAWN BY:

S. Glasses

DATE DRAWN:

July 18, 2014

REVISIONS BY:

C. Lameman

DATE REVISED:

July 18, 2014

CHECKED BY:

E. Skyles

DATE CHECKED:

July 18, 2014

APPROVED BY:

E. McNally

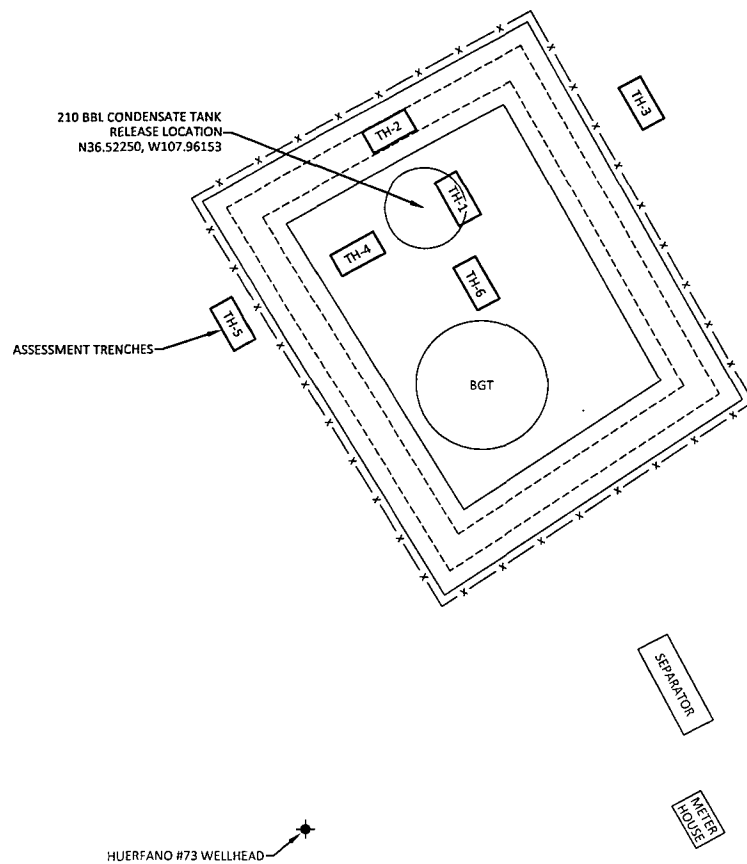
DATE APPROVED:

July 18, 2014

FIGURE 2

AERIAL SITE MAP JULY 2014

ConocoPhillips
HUERFANO #73
NW¼, NW¼, SECTION 1, T26N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.52228, W107.96159



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
TH-1	7/18/14	3	2,360	8,380
		5	1,896	NA
		8	1,737	NA
		12	1,449	NA
		15	1,516	>2,500
TH-2	7/18/14	2	65.6	NA
		5	86.8	42.2
		8	52.1	NA
TH-3	7/18/14	2	7.4	36.7
		6	4.4	NA
		8	3.6	NA
TH-4	7/18/14	2	4.6	NA
		5	5.6	60.2
TH-5	7/18/14	2	4.1	NA
		6	5.2	54.7
TH-6	7/18/14	3	2.9	NA
		5.5	5.2	NA
		8	5.9	42.2
NA - NOT ANALYZED				

FIGURE 3

**INITIAL ASSESSMENT SAMPLE
LOCATIONS AND RESULTS
JULY 2014**
ConocoPhillips
HUERFANO #73
NW¼, NW¼, SECTION 1, T26N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.52228, W107.96159



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
July 18, 2014

REVISIONS BY:
C. Lameman

DATE REVISED:
July 18, 2014

CHECKED BY:
E. Skyles

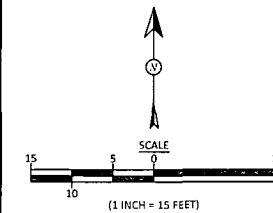
DATE CHECKED:
July 18, 2014

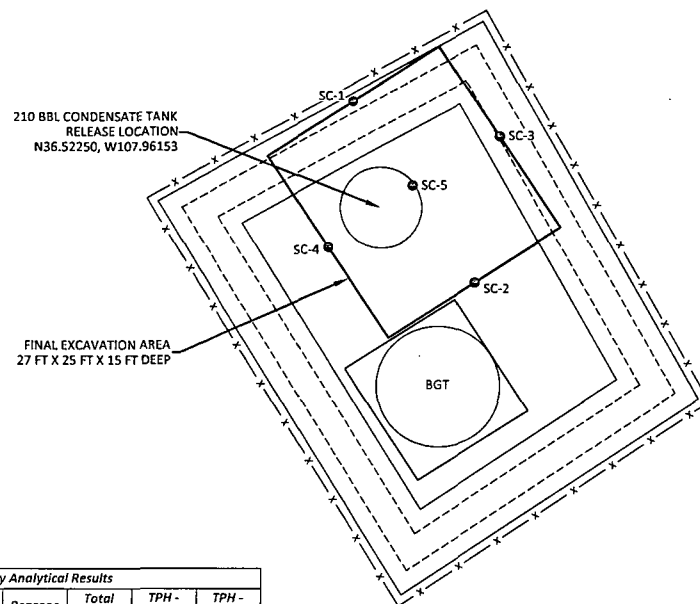
APPROVED BY:
E. McNally

DATE APPROVED:
July 18, 2014

LEGEND

===== SECONDARY CONTAINMENT BERM
— x — FENCE





Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-1	8/12/14	1 to 15	7.5	39.2
SC-2	8/12/14	1 to 15	6.2	69.9
SC-3	8/12/14	1 to 15	5.2	51.9
SC-4	8/12/14	1 to 15	20.6	73.9
SC-5	8/12/14	15	689	124

ALL SAMPLES WERE COMPOSITE SAMPLES.

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	1,000	
SC-1	8/12/14	1 to 15	NA	NA	<4.9	<9.9
SC-2	8/12/14	1 to 15	NA	NA	<4.8	<10
SC-3	8/12/14	1 to 15	NA	NA	<4.8	<9.9
SC-4	8/12/14	1 to 15	NA	NA	<4.8	<10
SC-5	8/12/14	15	<0.052	<0.256	5.1	<10

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND/OR 8015D.
NA - NOT ANALYZED

FIGURE 4

**FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
AUGUST 2014**
ConocoPhillips
HUERFANO #73
NW¼, NW¼, SECTION 1, T26N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.52228, W107.96159

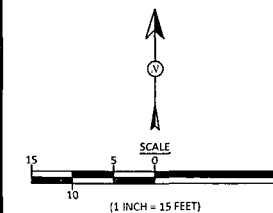


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: August 22, 2014
REVISIONS BY: C. Lameman	DATE REVISED: August 22, 2014
CHECKED BY: E. Skyles	DATE CHECKED: August 22, 2014
APPROVED BY: E. McNally	DATE APPROVED: August 22, 2014

LEGEND

- SAMPLE LOCATION
- === SECONDARY CONTAINMENT BERM
- x— FENCE



AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Huerfano #73

Date: 7/18/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1 @ 3'	7/18/2014	8:40	2,360	8,378	9:16	200	10	DAW
TH-1 @ 5'	7/18/2014	9:40	1,896	Not Analyzed for TPH				
TH-1 @ 8'	7/18/2014	9:45	1,737	Not Analyzed for TPH				
TH-1 @ 12'	7/18/2014	9:50	1,449	Not Analyzed for TPH				
TH-1 @ 15'	7/18/2014	10:00	1,516	>2,500	10:16	20.0	1	DAW
TH-2 @ 2'	7/18/2014	10:20	65.6	Not Analyzed for TPH				
TH-2 @ 5'	7/18/2014	10:23	86.8	42.2	12:23	20.0	1	DAW
TH-2 @ 8'	7/18/2014	10:25	52.1	Not Analyzed for TPH				
TH-3 @ 2'	7/18/2014	10:50	7.4	36.7	12:21	20.0	1	DAW
TH-3 @ 6'	7/18/2014	10:55	4.4	Not Analyzed for TPH				
TH-3 @ 8'	7/18/2014	11:00	3.6	Not Analyzed for TPH				
TH-4 @ 2'	7/18/2014	11:15	4.6	Not Analyzed for TPH				
TH-4 @ 5'	7/18/2014	11:20	5.6	60.2	12:19	20.0	1	DAW

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-5 @ 2'	7/18/2014	11:25	4.1	Not Analyzed for TPH				
TH-5 @ 6'	7/18/2014	11:30	5.2	54.7	12:25	20.0	1	DAW
TH-6 @ 3'	7/18/2014	11:35	2.9	Not Analyzed for TPH				
TH-6 @ 5.5'	7/18/2014	11:38	5.2	Not Analyzed for TPH				
TH-6 @ 8'	7/18/2014	11:40	5.9	42.2	12:17	20.0	1	DAW

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

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

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Huerfano #73

Date: 8/12/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	8/12/2014	13:55	7.5	39.2	14:15	20.0	1	EMS
SC-2	8/12/2014	13:30	6.2	69.9	13:50	20.0	1	EMS
SC-3	8/12/2014	13:35	5.2	51.9	13:55	20.0	1	EMS
SC-4	8/12/2014	12:18	20.6	73.9	13:02	20.0	1	EMS
SC-5	8/12/2014	12:20	689	124	13:05	20.0	1	EMS

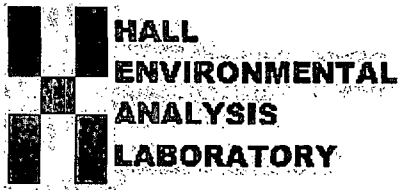
DF Dilution Factor
NA Not Analyzed
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit

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

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Smith S L



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

August 14, 2014

Emilee Skyles
Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX

RE: CoP Huerfano #73

OrderNo.: 1408567

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/13/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408567

Date Reported: 8/14/2014

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP Huerfano #73

Collection Date: 8/12/2014 12:20:00 PM

Lab ID: 1408567-001

Matrix: SOIL

Received Date: 8/13/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.052		mg/Kg	1	8/13/2014 11:47:04 AM	R20546
Toluene	ND	0.052		mg/Kg	1	8/13/2014 11:47:04 AM	R20546
Ethylbenzene	ND	0.052		mg/Kg	1	8/13/2014 11:47:04 AM	R20546
Xylenes, Total	ND	0.10		mg/Kg	1	8/13/2014 11:47:04 AM	R20546
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	8/13/2014 11:47:04 AM	R20546

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	Page 1 of 2
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408567

14-Aug-14

Client: Animas Environmental

Project: CoP Huerfano #73

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R20546	RunNo:	20546					
Prep Date:		Analysis Date:	8/13/2014	SeqNo:	597832	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		102	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R20546	RunNo:	20546					
Prep Date:		Analysis Date:	8/13/2014	SeqNo:	597833	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	80	120			
Toluene	0.99	0.050	1.000	0	99.2	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	1408567-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-5	Batch ID:	R20546	RunNo:	20546					
Prep Date:		Analysis Date:	8/13/2014	SeqNo:	597836	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.052	1.048	0.009895	102	77.4	142			
Toluene	1.1	0.052	1.048	0.01596	102	77	132			
Ethylbenzene	1.1	0.052	1.048	0.01448	104	77.6	134			
Xylenes, Total	3.4	0.10	3.145	0.08248	104	77.4	132			
Surr: 4-Bromofluorobenzene	1.2		1.048		110	80	120			

Sample ID	1408567-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-5	Batch ID:	R20546	RunNo:	20546					
Prep Date:		Analysis Date:	8/13/2014	SeqNo:	597837	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.052	1.048	0.009895	106	77.4	142	3.42	20	
Toluene	1.1	0.052	1.048	0.01596	103	77	132	1.57	20	
Ethylbenzene	1.1	0.052	1.048	0.01448	107	77.6	134	2.99	20	
Xylenes, Total	3.4	0.10	3.145	0.08248	106	77.4	132	1.62	20	
Surr: 4-Bromofluorobenzene	1.2		1.048		110	80	120	0	0	

Qualifiers:

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

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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1408567

RcptNo: 1

Received by/date: AT 08/13/14

Logged By: Anne Thorne 8/13/2014 7:30:00 AM *Anne Thorne*

Completed By: Anne Thorne 8/13/2014 *Anne Thorne*

Reviewed By: *AT* *08/13/14*

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	2.6	Good	Yes			

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: eskyles@animasenvironmental.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☐ Standard ☒ Rush Same-Day

COP Huertano #73

Project Manager:

E. Skyles

Sampler: E. Skyles

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.4

<div data-bbox="753 621 785 625" data-label="Text"> <p>150813/14</p> </div> <div data-bbox="753 625 785 628" data-label="Text"> <p>Container</p> </div> <div data-bbox="753 628 785 631" data-label="Text"> <p>Type and #</p> </div>	<div data-bbox="785 621 817 625" data-label="Text"> <p>Preservative</p> </div> <div data-bbox="785 625 817 628" data-label="Text"> <p>Type</p> </div>
--	---

MeoH/Kt	
1-4oz JAR	non-100

Preservative
Type

HEALING

1408567

-a.

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

1000

Date:	Time:	Relinquished by:
8/12/14	1804	[Signature]

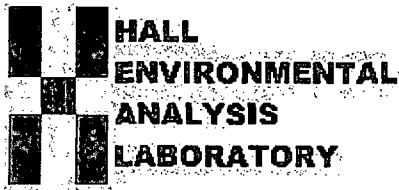
Date:	Time:	Relinquished by:
8/12/14	1821	CMF. Waeten

Received by:	Date	Time
<i>Christa Wheeler</i>	8/12/14	1804

Received by: Chris H Date 8/13/14 Time 1731

Remarks: Bill to Conoco Phillips
WD: 20287080 AREA: 21
ACT. CODE: DISO USER: KGARCIA
SUPER: MIKE SMITH ORDERED BY: JARED CHAVEZ

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 noted on the analytical report.



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

August 19, 2014

Emilee Skyles

Animas Environmental

624 East Comanche

Farmington, NM 87401

TEL: (505) 564-2281

FAX

RE: CoP Huerfano #73

OrderNo.: 1408574

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/13/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408574

Date Reported: 8/19/2014

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoP Huerfano #73

Collection Date: 8/12/2014 1:55:00 PM

Lab ID: 1408574-001

Matrix: SOIL

Received Date: 8/13/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/13/2014 1:19:57 PM	14719
Surr: DNOP	98.4	57.9-140		%REC	1	8/13/2014 1:19:57 PM	14719
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2014 11:02:03 PM	14747
Surr: BFB	92.1	80-120		%REC	1	8/14/2014 11:02:03 PM	14747

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	Page 1 of 8
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408574

Date Reported: 8/19/2014

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP Huerfano #73

Collection Date: 8/12/2014 1:30:00 PM

Lab ID: 1408574-002

Matrix: SOIL

Received Date: 8/13/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/13/2014 2:45:20 PM	14719
Surr: DNOP	99.6	57.9-140		%REC	1	8/13/2014 2:45:20 PM	14719
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2014 11:30:37 PM	14747
Surr: BFB	92.1	80-120		%REC	1	8/14/2014 11:30:37 PM	14747

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	Page 2 of 8
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408574

Date Reported: 8/19/2014

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: CoP Huerfano #73

Collection Date: 8/12/2014 1:35:00 PM

Lab ID: 1408574-003

Matrix: SOIL

Received Date: 8/13/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/13/2014 3:06:36 PM	14719
Surr: DNOP	99.4	57.9-140		%REC	1	8/13/2014 3:06:36 PM	14719
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2014 11:59:09 PM	14747
Surr: BFB	93.3	80-120		%REC	1	8/14/2014 11:59:09 PM	14747

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	Page 3 of 8
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408574

Date Reported: 8/19/2014

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: CoP Huerfano #73

Collection Date: 8/12/2014 12:18:00 PM

Lab ID: 1408574-004

Matrix: SOIL

Received Date: 8/13/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/13/2014 3:28:04 PM	14719
Surr: DNOP	99.5	57.9-140		%REC	1	8/13/2014 3:28:04 PM	14719
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2014 12:27:46 AM	14747
Surr: BFB	93.4	80-120		%REC	1	8/15/2014 12:27:46 AM	14747

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	Page 4 of 8
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1408574

Date Reported: 8/19/2014

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP Huerfano #73

Collection Date: 8/12/2014 12:20:00 PM

Lab ID: 1408574-005

Matrix: SOIL

Received Date: 8/13/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/13/2014 3:49:30 PM	14719
Surr: DNOP	102	57.9-140		%REC	1	8/13/2014 3:49:30 PM	14719
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.1	5.0		mg/Kg	1	8/15/2014 12:56:26 AM	14747
Surr: BFB	115	80-120		%REC	1	8/15/2014 12:56:26 AM	14747

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	Page 5 of 8
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408574

19-Aug-14

Client: Animas Environmental

Project: CoP Huerfano #73

Sample ID	MB-14719		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	14719		RunNo:	20529				
Prep Date:	8/12/2014		Analysis Date:	8/13/2014		SeqNo:	597002		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	9.7		10.00		96.9	57.9	140				

Sample ID	LCS-14719		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 14719		RunNo: 20529					
Prep Date:	8/12/2014		Analysis Date: 8/13/2014		SeqNo: 597313		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	68.6	130			
Surr: DNOP	4.6		5.000		91.5	57.9	140			

Sample ID	1408574-001AMS		SampType:	MS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	SC-1		Batch ID:	14719		RunNo:	20529				
Prep Date:	8/13/2014		Analysis Date:	8/13/2014		SeqNo:	598021		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	39	9.9	49.26	0	79.0	40.1	152				
Surr: DNOP	5.0		4.926		102	57.9	140				

Sample ID	1408574-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	SC-1		Batch ID:	14719		RunNo:	20529				
Prep Date:	8/13/2014		Analysis Date:	8/13/2014		SeqNo:	598022		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	9.9	49.60	0	92.9	40.1	152	16.9	32.1		
Surr: DNOP	4.9		4.960		99.1	57.9	140	0	0		

Sample ID	MB-14743		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 14743		RunNo: 20529					
Prep Date:	8/13/2014		Analysis Date: 8/13/2014		SeqNo: 598024		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.5	57.9	140			

Sample ID	LCS-14743		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 14743		RunNo: 20529					
Prep Date:	8/13/2014		Analysis Date: 8/13/2014		SeqNo: 598025		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.6	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408574

19-Aug-14

Client: Animas Environmental

Project: CoP Huerfano #73

Sample ID	MB-14777	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	14777	RunNo	20599					
Prep Date	8/14/2014	Analysis Date	8/15/2014	SeqNo	599319	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.8		10.00		78.4	57.9	140			

Sample ID	LCS-14777	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	14777	RunNo	20599					
Prep Date	8/14/2014	Analysis Date	8/15/2014	SeqNo	599320	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.6	57.9	140			

Sample ID	MB-14764	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	14764	RunNo	20602					
Prep Date	8/14/2014	Analysis Date	8/14/2014	SeqNo	599330	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.3	57.9	140			

Sample ID	LCS-14764	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	14764	RunNo	20602					
Prep Date	8/14/2014	Analysis Date	8/14/2014	SeqNo	599331	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.2	57.9	140			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408574

19-Aug-14

Client: Animas Environmental

Project: CoP Huerfano #73

Sample ID	MB-14747		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 14747		RunNo: 20588					
Prep Date:	8/13/2014		Analysis Date: 8/14/2014		SeqNo: 598916		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	930		1000		93.2	80	120			

Sample ID	LCS-14747		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 14747		RunNo: 20588					
Prep Date:	8/13/2014		Analysis Date: 8/14/2014		SeqNo: 598917		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	125	65.8	139			
Surr: BFB	1000		1000		101	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1408574

RcptNo: 1

Received by/date:	AT	08/13/14
Logged By:	Celina Sessa	8/13/2014 7:30:00 AM
Completed By:	Celina Sessa	8/13/2014 9:36:51 AM
Reviewed By:	<i>[Signature]</i>	08/13/14

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

- Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

[illegible]

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.