

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

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 Lindsay Dumas
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 599-4089
Facility Name: Lindrith B 8	Facility Type: Oil
Surface Owner Fee	Mineral Owner BLM (SF-078913)
	API No. 30-039-22422

LOCATION OF RELEASE

Unit Letter M	Section 27	Township 24N	Range 03W	Feet from the 940'	North/South Line South Line	Feet from the 825'	East/West Line West Line	County Rio Arriba
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Latitude 36.276859 Longitude -107.14959

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release 63 BBLS	Volume Recovered 0 BBLS
Source of Release Production Tank	Date and Hour of Occurrence 3/19/14 12:00PM	Date and Hour of Discovery 3/19/2014 12:00PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shari Ketcham (BLM) & Brandon Powell (OCD)	
By Whom? Lindsay Dumas	Date and Hour 3/19/14 4:30PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3
OCT 22 2014

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A tank fire resulted in a release of 63 bbls of condensate. 56 bbls were consumed during the fire and 7 bbls were deposited on the adjacent production tank and secondary containment. The fire was monitored and burned out on its own.

Describe Area Affected and Cleanup Action Taken.*
Excavation was 35' x 55' x 2' Deep. 143 c/yds of soil was transported to TNT Land Farm and 143 c/yds of clean soil was transported from Aztec Machine 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.

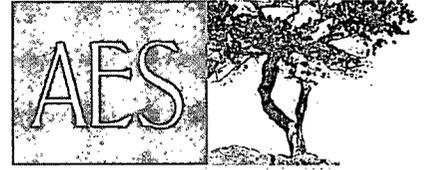
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <i>Lindsay Dumas</i>	OIL CONSERVATION DIVISION	
Printed Name: Lindsay Dumas	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Specialist	Approval Date: 11/19/20	Expiration Date:
E-mail Address: Lindsay.Dumas@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/18/2014 Phone: (505) 599-4089		

* Attach Additional Sheets If Necessary

#NCS 1432335558

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Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

August 11, 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
Lindrith B #8 (North Excavation)
Rio Arriba County, New Mexico**

Dear Ms. Dumas:

On April 11 and May 14, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits (north excavation) at the ConocoPhillips (CoP) Lindrith B #8, located in Rio Arriba County, New Mexico. The release consisted of approximately 63 barrels (bbls) of produced water and condensate and was the result of an tank explosion during a facility reset at the location. The initial release assessment was completed by AES on April 11, 2014, and the final excavation was completed by CoP contractors prior to AES' arrival at the location on May 14, 2014.

1.0 Site Information

1.1 Location

Site Name – Lindrith B #8

Location – SW¼ SW¼, Section 27, T24N, R3W, Rio Arriba County, New Mexico

Well Head Latitude/Longitude – N36.27684 and W107.15009, respectively

Release Location Latitude/Longitude – N36.27715 and W107.14998, respectively

Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, April 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 30 based on the following factors:

- **Depth to Groundwater:** A pit closure report form dated April 1995 for the Lindrith B #8 reported the depth to groundwater at 50 to 99 feet below ground surface (bgs). (10 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** There are two unnamed washes located approximately 180 feet to the east and west of the location. Both washes flow into the wash in Medio Canyon. (20 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of CoP on April 8, 2014, and on April 11, 2014, Deborah Watson and Sam Glasses of AES completed the release assessment field work. The assessment included collection and field sampling of 34 soil samples from 14 borings in and around the release area. Soil borings were terminated between 1 and 4 feet. Based on the field sampling results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On May 14, 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 49 feet by 37 feet by 1.5 to 4 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 34 soil samples from 14 borings (SB-1 through SB-14) 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). One discrete soil sample (SB-1) collected during the initial assessment and five composite samples (SC-1 through SC-5) 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.

2.3 Field and Laboratory Analytical Results

On April 11, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm (SB-3, SB-5 through SB-9, SB-12, SB-13, and SB-14) up to 12.5 ppm (SB-10). Field TPH concentrations ranged from 24.4 mg/kg in SB-4 to greater than 2,500 mg/kg in SB-1.

On May 14, 2014, final excavation field screening results for VOCs via OVM ranged from 0.5 ppm in SC-2 up to 1.8 ppm in SC-4. Field TPH concentrations ranged from 25.7 mg/kg in SC-4 up to 137 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. Field Sampling VOCs and TPH Results
Lindrith B #8 Initial Release Assessment and Final Excavation (North Excavation)
April and May 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>			100	100
SB-1	4/11/14	0.5	12.3	>2,500
		1	1.9	2,007
		2	0.1	NA
		3	0.9	448
SB-2	4/11/14	0.5	0.3	NA
		2	0.1	149
SB-3	4/11/14	0.5	0.4	NA
		1	5.7	NA
		2	0.0	NA
		3	0.2	390
SB-4	4/11/14	0.5	0.1	NA
		3	1.1	24.4
SB-5	4/11/14	0.5	0.0	NA
SB-6	4/11/14	Surface	0.0	NA
		1	0.0	25.7
SB-7	4/11/14	Surface	0.0	NA
		1	0.0	130
SB-8	4/11/14	Surface	0.0	NA
		1	0.0	161
SB-9	4/11/14	Surface	0.0	138
		1	0.0	NA
SB-10	4/11/14	0.5	12.5	NA
		1	1.7	111
		2	1.6	448
		3	1.2	NA
		4	0.6	25.7
SB-11	4/11/14	Surface	0.1	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
<i>NMOCD Action Level*</i>			100	100
		2	0.1	41.2
SB-12	4/11/14	Surface	0.9	NA
		2	0.0	609
SB-13	4/11/14	0.5	0.5	NA
		2	0.0	42.5
SB-14	4/11/14	Surface	0.0	NA
		2	0.0	68.2
SC-1	5/14/14	1 to 4	0.6	137
SC-2	5/14/14	1 to 2.5	0.5	41.2
SC-3	5/14/14	1 to 4	0.9	32.1
SC-4	5/14/14	1 to 4	1.8	25.7
SC-5	5/14/14	1.5 to 4	1.5	113

NA – not analyzed

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

Laboratory analyses for SB-1 at 3 feet were used to confirm field sampling results of the initial release assessment, and TPH concentrations as GRO/DRO were reported at 310 mg/kg.

Laboratory analyses for SC-1 through SC-5 were used to confirm field sampling results from the final excavation. TPH concentrations as GRO/DRO were reported below the detection limits in all samples, except SC-5 with 26 mg/kg DRO. 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
 Lindrith B #8 Initial Release Assessment and Final Excavation (North Excavation)
 April and May 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>100</i>	
SB-1	4/11/14	3	NA	NA	<5.0	310
SC-1	5/14/14	1 to 4	NA	NA	<3.3	<9.8
SC-2	5/14/14	0.5 to 2.5	NA	NA	<4.7	<10
SC-3	5/14/14	1 to 4	NA	NA	<4.9	<9.9
SC-4	5/14/14	1 to 4	NA	NA	<4.9	<9.9
SC-5	5/14/14	1.5 to 4	NA	NA	<3.3	26

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 April 11, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a release of produced water and condensate at the Lindrith B #8. 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 30.

Initial assessment field sampling results above the NMOCD action level of 100 mg/kg TPH were reported in SB-1, SB-2, SB-3, SB-7, SB-8, SB-9, SB-10 and SB-12. The highest VOC concentration was reported in SB-10 with 12.5 ppm, and the highest TPH concentration was reported in SB-1 with greater than 2,500 mg/kg. Laboratory analyses for SB-1 were used to confirm field sampling results, and the TPH concentration as GRO/DRO exceeded the NMOCD action level of 100 mg/kg with 310 mg/kg.

On May 14, 2014, 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. Field TPH concentrations were also 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) and SC-5 (base) which had TPH concentrations of 137 and 113 mg/kg, respectively. However,

laboratory analytical results reported TPH concentrations as GRO/DRO below the applicable NMOCD action level in all samples.

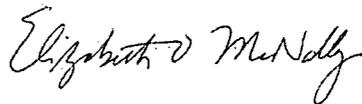
Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Lindrith B #8 (North Excavation), VOCs, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. 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,



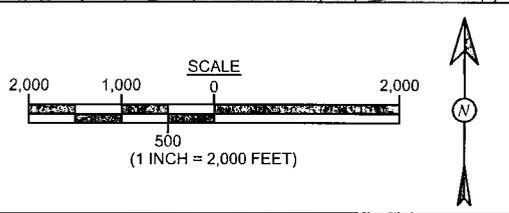
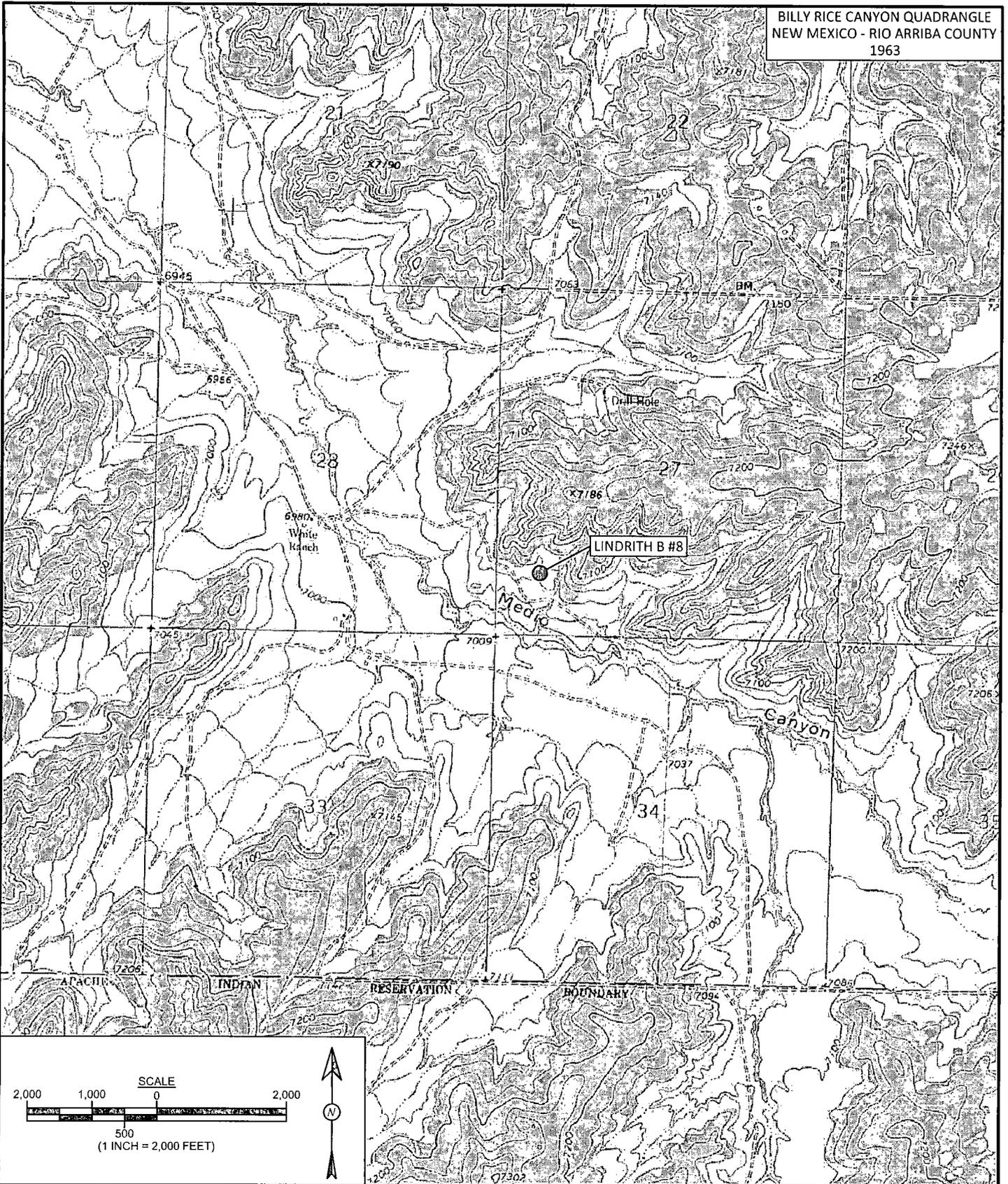
Emilee Skyles
Staff Geologist



Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, April 2014
- Figure 3. Initial Assessment Sample Locations and Results, April 2014
- Figure 4. Final Excavation Sample Locations and Results, May 2014
- AES Field Sampling Report 041114
- AES Field Sampling Report 051414
- Hall Laboratory Analytical Report 1404743
- Hall Laboratory Analytical Report 1405659
- Hall Laboratory Analytical Report 1405664



DRAWN BY: S. Glasses	DATE DRAWN: March 24, 2014
REVISIONS BY: C. Lameman	DATE REVISED: June 25, 2014
CHECKED BY: D. Watson	DATE CHECKED: June 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: June 25, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 LINDRITH B #8
 SW¼ SW¼, SECTION 27, T24N, R3W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.27684, W107.15009

LEGEND	
	SECONDARY CONTAINMENT
	BERM
	FENCE



AERIAL SOURCE: © 2014 GOOGLE EARTH PRO, AERIAL DATE: SEPTEMBER 17, 2012



Animas Environmental Services, LLC

DRAWN BY: S. Glasses	DATE DRAWN: April 15, 2014
REVISIONS BY: C. Lameman	DATE REVISED: June 25, 2014
CHECKED BY: D. Watson	DATE CHECKED: June 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: June 25, 2014

FIGURE 2

AERIAL SITE MAP
APRIL 2014
 ConocoPhillips
 LINDRITH B #8

SW¼ SW¼, SECTION 27, T24N, R3W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.27684, W107.15009

FIGURE 3

INITIAL RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS
APRIL 2014
 ConocoPhillips
 LINDRITH B RS
 SW¼ SW¼, SECTION 27, T24N, R3W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.27684, W107.15009

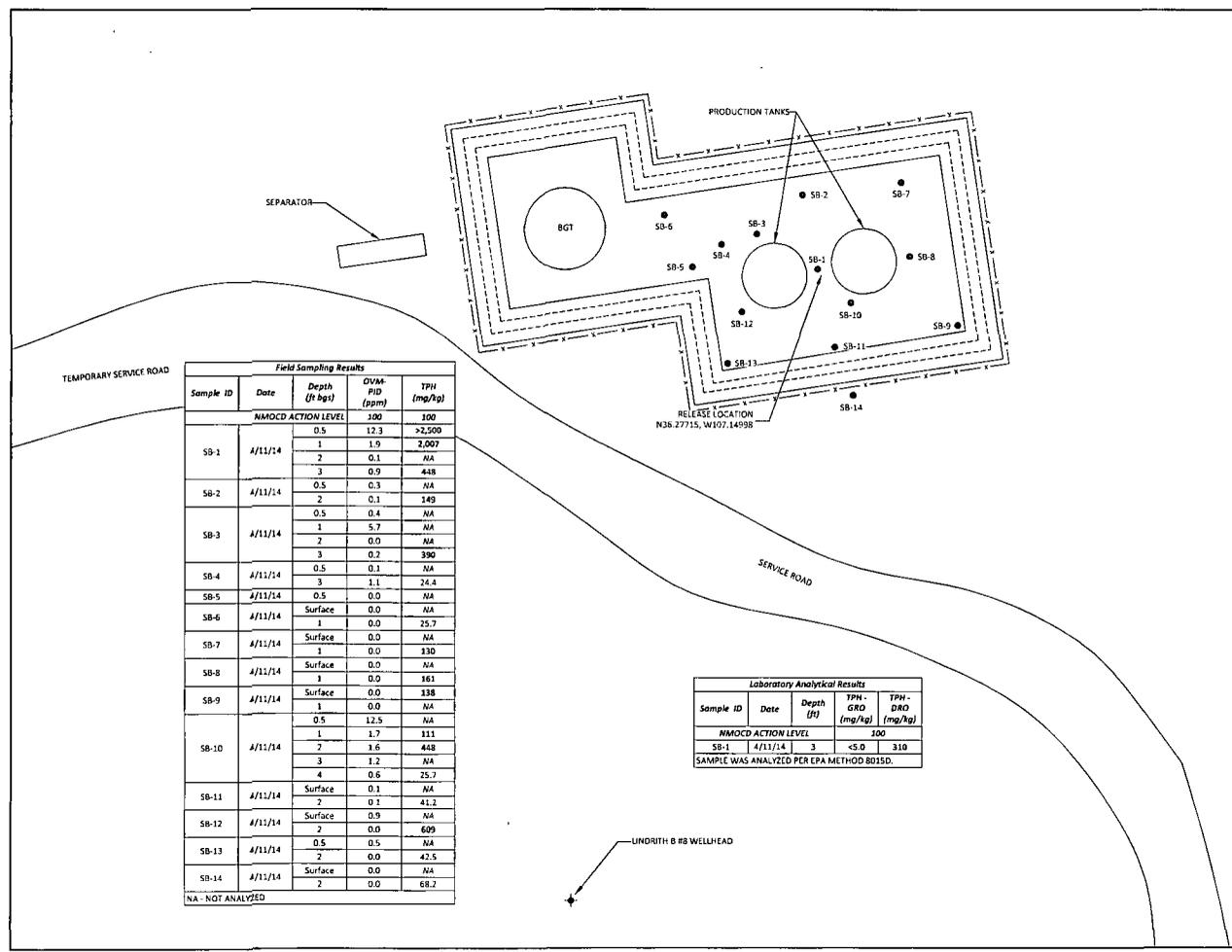


Animas Environmental Services, LLC

DRAWN BY: S. Glasses	DATE DRAWN: April 15, 2014
REVISIONS BY: C. Lammeman	DATE REVISED: June 25, 2014
CHECKED BY: D. Watson	DATE CHECKED: June 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: June 25, 2014

LEGEND

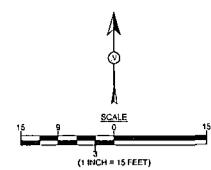
- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- x- FENCE



Field Sampling Results			
Sample ID	Date	Depth (ft-bgt)	TPH (mg/kg)
NMOC ACTION LEVEL			
		0.5	300
		1	300
		2	300
		3	300
SB-1	4/11/14	0.5	32,500
		1	2,007
		2	0.1
		3	0.9
SB-2	4/11/14	0.5	0.3
		2	0.1
		0.5	0.4
SB-3	4/11/14	1	5.7
		2	0.0
		3	0.2
SB-4	4/11/14	0.5	0.1
		3	3.1
SB-5	4/11/14	0.5	0.0
SB-6	4/11/14	Surface	0.0
		1	0.0
SB-7	4/11/14	Surface	0.0
		1	0.0
SB-8	4/11/14	Surface	0.0
		1	0.0
SB-9	4/11/14	Surface	0.0
		1	0.0
		0.5	12.5
		1	1.7
SB-10	4/11/14	2	1.6
		3	1.2
		4	0.6
SB-11	4/11/14	Surface	0.1
		2	0.1
SB-12	4/11/14	Surface	0.9
		2	0.0
SB-13	4/11/14	0.5	0.5
		2	0.0
SB-14	4/11/14	Surface	0.0
		2	0.0

Laboratory Analytical Results			
Sample ID	Date	Depth (ft)	TPH-GRO (mg/kg)
			TPH-DRO (mg/kg)
NMOC ACTION LEVEL			
			300
SB-1	4/11/14	3	<5.0
			310

SAMPLE WAS ANALYZED PER EPA METHOD 8015D.



NA - NOT ANALYZED

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: Lindrith B #8

Date: 4/11/2014

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
SB-1 @ 0.5'	4/11/2014	11:15	12.3	>2,500	11:54	20.0	1	DAW
SB-1 @ 1'	4/11/2014	11:18	1.9	2,007	11:56	20.0	1	DAW
SB-1 @ 2'	4/11/2014	11:22	0.1	Not Analyzed for TPH				
SB-1 @ 3'	4/11/2014	12:55	0.9	448	13:10	20.0	1	DAW
SB-2 @ 0.5'	4/11/2014	12:30	0.3	Not Analyzed for TPH				
SB-2 @ 2'	4/11/2014	12:35	0.1	149	12:49	20.0	1	DAW
SB-3 @ 0.5'	4/11/2014	11:25	0.4	Not Analyzed for TPH				
SB-3 @ 1'	4/11/2014	11:30	5.7	Not Analyzed for TPH				
SB-3 @ 2'	4/11/2014	11:35	0.0	Not Analyzed for TPH				
SB-3 @ 3'	4/11/2014	11:35	0.2	390	12:49	20.0	1	DAW
SB-4 @ 0.5'	4/11/2014	13:00	0.1	Not Analyzed for TPH				
SB-4 @ 3'	4/11/2014	13:15	1.1	24.4	12:53	20.0	1	DAW
SB-5 @ 0.5'	4/11/2014	13:25	0.0	Not Analyzed for TPH				
SB-6 @ surface	4/11/2014	13:30	0.0	Not Analyzed for TPH				
SB-6 @ 1'	4/11/2014	13:35	0.0	25.7	13:50	20.0	1	DAW
SB-7 @ surface	4/11/2014	13:40	0.0	Not Analyzed for TPH				
SB-7 @ 1'	4/11/2014	13:42	0.0	130	13:52	20.0	1	DAW
SB-8 @ surface	4/11/2014	13:43	0.0	Not Analyzed for TPH				
SB-8 @ 1'	4/11/2014	13:45	0.0	161	13:58	20.0	1	DAW
SB-9 @ surface	4/11/2014	13:50	0.0	138	14:02	20.0	1	DAW
SB-9 @ 1'	4/11/2014	13:55	0.0	Not Analyzed for TPH				
SB-10 @ 0.5'	4/11/2014	11:38	12.5	Not Analyzed for TPH				
SB-10 @ 1'	4/11/2014	11:40	1.7	111	12:00	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
SB-10 @ 2'	4/11/2014	11:45	1.6	448	12:02	20.0	1	DAW
SB-10 @ 3'	4/11/2014	12:58	1.2	<i>Not Analyzed for TPH</i>				
SB-10 @ 4'	4/11/2014	13:05	0.6	25.7	13:20	20.0	1	DAW
SB-11 @ surface	4/11/2014	12:40	0.1	<i>Not Analyzed for TPH</i>				
SB-11 @ 2'	4/11/2014	12:45	0.1	41.2	12:58	20.0	1	DAW
SB-12 @ surface	4/11/2014	12:48	0.9	<i>Not Analyzed for TPH</i>				
SB-12 @ 2'	4/11/2014	12:50	0.0	609	13:05	20.0	1	DAW
SB-13 @ 0.5'	4/11/2014	14:20	0.5	<i>Not Analyzed for TPH</i>				
SB-13 @ 2'	4/11/2014	14:25	0.0	42.5	14:45	20.0	1	DAW
SB-14 @ surface	4/11/2014	14:30	0.0	<i>Not Analyzed for TPH</i>				
SB-14 @ 2'	4/11/2014	14:35	0.0	68.2	14:58	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: *Deborah Water*

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: Lindrith B #8

Date: 5/14/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	5/14/2014	10:45	North Wall	0.6	11:40	137	20.0	1	DAW
SC-2	5/14/2014	10:48	South Wall	0.5	11:42	41.2	20.0	1	DAW
SC-3	5/14/2014	10:50	East Wall	0.9	11:45	32.1	20.0	1	DAW
SC-4	5/14/2014	10:52	West Wall	1.8	11:47	25.7	20.0	1	DAW
SC-5	5/14/2014	10:55	Base	1.5	11:50	113	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:

Deborah Waters



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

April 24, 2014

Debbie Watson

Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: CoP Lindrith B #8

OrderNo.: 1404743

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/16/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SB-1@3'

Project: CoP Lindrith B #8

Collection Date: 4/11/2014 12:55:00 PM

Lab ID: 1404743-001

Matrix: SOIL

Received Date: 4/16/2014 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	310	99		mg/Kg	10	4/22/2014 10:44:49 AM	12726
Surr: DNOP	0	57.9-140	S	%REC	10	4/22/2014 10:44:49 AM	12726
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2014 7:44:39 PM	12739
Surr: BFB	86.9	74.5-129		%REC	1	4/17/2014 7:44:39 PM	12739

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404743

24-Apr-14

Client: Animas Environmental

Project: CoP Lindrith B #8

Sample ID	MB-12726	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12726	RunNo:	18017					
Prep Date:	4/15/2014	Analysis Date:	4/17/2014	SeqNo:	521794	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	8.4		10.00		84.4	57.9	140			

Sample ID	LCS-12726	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12726	RunNo:	18017					
Prep Date:	4/15/2014	Analysis Date:	4/17/2014	SeqNo:	521795	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	98.5	60.8	145			
Surr: DNOP	4.3		5.000		86.4	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#: 1404743

24-Apr-14

Client: Animas Environmental

Project: CoP Lindrith B #8

Sample ID	MB-12739	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12739	RunNo:	18070					
Prep Date:	4/16/2014	Analysis Date:	4/17/2014	SeqNo:	521280	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.3	74.5	129			

Sample ID	LCS-12739	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12739	RunNo:	18070					
Prep Date:	4/16/2014	Analysis Date:	4/17/2014	SeqNo:	521281	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	71.7	134			
Surr: BFB	980		1000		97.8	74.5	129			

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: **1404743** RcptNo: **1**

Received by/date:

Sum 04/16/14

Logged By: **Ashley Gallegos** 4/16/2014 10:10:00 AM

AG

Completed By: **Ashley Gallegos** 4/16/2014 11:14:12 AM

AG

Reviewed By:

At 04/16/14

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 ✓
of preserved bottles checked for pH: Adjusted?
- 12. Does paperwork match bottle labels? Yes ✓ No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes ✓ No
- 14. Is it clear what analyses were requested? Yes ✓ No
- 15. Were all holding times able to be met? Yes ✓ No Checked by:
(If no, notify customer for authorization.)

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			



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

May 16, 2014

Debbie Watson

Animas Environmental

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP Lindrith B #8 North Excavation

OrderNo.: 1405659

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/15/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-1**Project:** CoP Lindrith B #8 North Excavation**Collection Date:** 5/14/2014 10:45:00 AM**Lab ID:** 1405659-001**Matrix:** MEOH (SOIL)**Received Date:** 5/15/2014 10:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/15/2014 2:00:05 PM	13180
Surr: DNOP	106	57.9-140		%REC	1	5/15/2014 2:00:05 PM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/15/2014 2:38:56 PM	R18624
Surr: BFB	84.5	80-120		%REC	1	5/15/2014 2:38:56 PM	R18624

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1405659

Date Reported: 5/16/2014

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP Lindrith B #8 North Excavation

Collection Date: 5/14/2014 10:55:00 AM

Lab ID: 1405659-002

Matrix: MEOH (SOIL)

Received Date: 5/15/2014 10:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	26	10		mg/Kg	1	5/15/2014 2:31:05 PM	13180
Surr: DNOP	111	57.9-140		%REC	1	5/15/2014 2:31:05 PM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/15/2014 3:07:34 PM	R18624
Surr: BFB	84.7	80-120		%REC	1	5/15/2014 3:07:34 PM	R18624

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405659

16-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 North Excavation

Sample ID	MB-13155	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13155	RunNo:	18605					
Prep Date:	5/13/2014	Analysis Date:	5/15/2014	SeqNo:	537633	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		115	57.9	140			

Sample ID	LCS-13155	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13155	RunNo:	18605					
Prep Date:	5/13/2014	Analysis Date:	5/15/2014	SeqNo:	537661	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		120	57.9	140			

Sample ID	MB-13180	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13180	RunNo:	18605					
Prep Date:	5/15/2014	Analysis Date:	5/15/2014	SeqNo:	537900	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		96.7	57.9	140			

Sample ID	LCS-13180	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13180	RunNo:	18605					
Prep Date:	5/15/2014	Analysis Date:	5/15/2014	SeqNo:	537901	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	60.8	145			
Surr: DNOP	5.1		5.000		103	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#: 1405659

16-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 North Excavation

Sample ID MB-13175 MK	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R18624	RunNo: 18624								
Prep Date:	Analysis Date: 5/15/2014	SeqNo: 538752			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.3	80	120			

Sample ID LCS-13175 MK	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R18624	RunNo: 18624								
Prep Date:	Analysis Date: 5/15/2014	SeqNo: 538753			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	71.7	134			
Surr: BFB	930		1000		93.5	80	120			

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: 1405659

RcptNo: 1

Received by/date: CS 05/15/14

Logged By: Michelle Garcia 5/15/2014 10:08:00 AM *Michelle Garcia*

Completed By: Michelle Garcia 5/15/2014 10:39:03 AM *Michelle Garcia*

Reviewed By: *[Signature]* 05/15/14

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? Yes No
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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

Special Handling (if applicable)

- 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	1.2	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Standard Rush Saturday

Project Name:

COP Lindnith B#8 North Excavation

Project #:

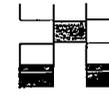
Project Manager:

D. Watson

Sampler: D. Watson

On Ice: Yes No

Sample Temperature: 1.2°



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Animas Environmental Services LLC

Mailing Address: 624 E Comanche Farmington N.M. 87401

Phone #: 505 564 2281

Email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type): _____

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO/MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
4/14	1045	soil	SC-1	MEOH Kit	MEOH	1405659												
4/14	1055	soil	SC-5	MEOH Kit	MEOH	-001			X									
				MEOH Kit	MEOH	-002			X									

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/14	1733	<u>Debrah Water</u>	<u>Christine Waeles</u>	5/14/14	1733
Date:	Time:	Relinquished by:	Received by:	Date	Time
4/14	1754	<u>Christine Waeles</u>	<u>Celina Serna</u>	05/15/14	10:08

Remarks: Roll to Conoco Phillips

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

May 20, 2014

Debbie Watson
Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: CoP Lindrith B #8 North Excavation

OrderNo.: 1405664

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/15/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP Lindrith B #8 North Excavation

Collection Date: 5/14/2014 10:48:00 AM

Lab ID: 1405664-001

Matrix: SOIL

Received Date: 5/15/2014 10:08:00 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	5/16/2014 9:29:04 PM	13180
Surr: DNOP	102	57.9-140		%REC	1	5/16/2014 9:29:04 PM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/16/2014 3:30:29 PM	13192
Surr: BFB	87.8	80-120		%REC	1	5/16/2014 3:30:29 PM	13192

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-3**Project:** CoP Lindrith B #8 North Excavation**Collection Date:** 5/14/2014 10:50:00 AM**Lab ID:** 1405664-002**Matrix:** SOIL**Received Date:** 5/15/2014 10:08:00 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	5/16/2014 9:59:21 PM	13180
Surr: DNOP	127	57.9-140		%REC	1	5/16/2014 9:59:21 PM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2014 3:59:08 PM	13192
Surr: BFB	87.4	80-120		%REC	1	5/16/2014 3:59:08 PM	13192

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental **Client Sample ID:** SC-4
Project: CoP Lindrith B #8 North Excavation **Collection Date:** 5/14/2014 10:52:00 AM
Lab ID: 1405664-003 **Matrix:** SOIL **Received Date:** 5/15/2014 10:08:00 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	5/16/2014 10:29:55 PM	13180
Surr: DNOP	148	57.9-140	S	%REC	1	5/16/2014 10:29:55 PM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2014 4:27:40 PM	13192
Surr: BFB	87.7	80-120		%REC	1	5/16/2014 4:27:40 PM	13192

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405664

20-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 North Excavation

Sample ID MB-13180	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 13180	RunNo: 18605								
Prep Date: 5/15/2014	Analysis Date: 5/15/2014	SeqNo: 537900	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		96.7	57.9	140			

Sample ID LCS-13180	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 13180	RunNo: 18605								
Prep Date: 5/15/2014	Analysis Date: 5/15/2014	SeqNo: 537901	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	60.8	145			
Surr: DNOP	5.1		5.000		103	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#: 1405664

20-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 North Excavation

Sample ID	MB-13192	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	13192	RunNo:	18658					
Prep Date:	5/15/2014	Analysis Date:	5/16/2014	SeqNo:	539584	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	840		1000		84.4	80	120			

Sample ID	LCS-13192	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	13192	RunNo:	18658					
Prep Date:	5/15/2014	Analysis Date:	5/16/2014	SeqNo:	539585	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.2	71.7	134			
Surr: BFB	970		1000		97.3	80	120			

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: 1405664

RcptNo: 1

Received by/date: CS 05/15/14

Logged By: Michelle Garcia 5/15/2014 10:08:00 AM *Michelle Garcia*

Completed By: Michelle Garcia 5/15/2014 11:03:44 AM *Michelle Garcia*

Reviewed By: *[Signature]* 05/15/14

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: 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	1.2	Good	Yes			

