

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Ashley Maxwell	
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-324-5169	
Facility Name: Huerfanito Unit 26R	Facility Type: Gas Well	
Surface Owner: Federal	Mineral Owner: Federal	API No. 3004530865 Lease No. SF-078081

LOCATION OF RELEASE

Unit Letter P	Section 33	Township 27N	Range 09W	Feet from the 930'	North/South Line South	Feet from the 1295'	East/West Line East	County San Juan
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Latitude **36.52698** Longitude **-107.7886**

NATURE OF RELEASE

Type of Release - Unknown Produced fluids	Volume of Release - Unknown	Volume Recovered
Source of Release - Below Grade Tank	Date and Hour of Occurrence - Unknown	Date and Hour of Discovery 5/1/2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	RCVD AUG 6 '12 OIL CONS. DIV.
By Whom?	Date and Hour	DIST. 3
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

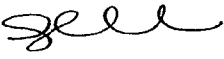
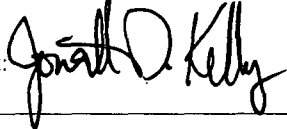
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Below Grade Tank Closure Activities

Describe Area Affected and Cleanup Action Taken.*

The below grade tank field sample results were above regulatory standard by USEPA method 418.1 for TPH @ 37,400 ppm, confirming a release. The regulatory standard for closure at this site was determined to be 5,000 ppm. Additionally, the sample was then transported to the lab and analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required.

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: Ashley Maxwell	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 9/5/2014	Expiration Date:
E-mail Address: ashley.p.wethington@conocophillips.com	Conditions of Approval: Site Ranking determined to be ID due to being <1000ft to blue line water courses as visible on USGS topo map. Closure approved under Risk Based closure. BGT Closure Permit	
Date: August 2, 2012	Phone: 505-324-5169	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

njx1424854353 Needs to be filed on C-144



Animas Environmental Services, LLC

www.animasenvironmental.com

June 26, 2012

Ashley Maxwell
ConocoPhillips
San Juan Business Unit
Office 216-2
5525 Hwy 64
Farmington, New Mexico 87401

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

Durango, Colorado
970-403-3274

**RE: Huerfanito Unit 26R Below Grade Tank Closure and Release Report
San Juan County, New Mexico**

Dear Ms. Maxwell:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure and release confirmation at ConocoPhillips (CoP) Huerfanito Unit 26R, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Huerfanito Unit 26R
Legal Description - SW¼ SE¼, Section 33, T27N, R9W, San Juan County, New Mexico
Well Latitude/Longitude – N36.52707 and W107.78932, respectively
BGT Latitude/Longitude - N36.52732 and W107.78926, respectively
Land Jurisdiction - Bureau of Land Management (BLM)
Figure 1 - Topographic Site Location Map
Figure 2 – Aerial Site Map, May 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) and New Mexico Office of the State Engineer (NMOSE) databases were reviewed, and no prior ranking information was located. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed, and no registered water wells are located within 1,000 feet of the location. Once on site, AES personnel assessed the ranking using known information of the area, topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that

depth to groundwater at the site was greater than 100 feet below ground surface (bgs), and the location is not within a well-head protection area. A livestock pond is located approximately 3,300 feet to the west (cross-gradient), and an unnamed wash leading to Reed Canyon is located more than 1,000 feet to the south-southwest. The site location has been assigned a ranking score of 0 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on May 10, 2012, and on the next day, Tami Ross and Zachary Trujillo of AES mobilized to the location.

AES personnel collected six soil samples (S-1 through S-6) from the below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, and one sample was collected from the center of the BGT footprint. One soil sample (S-6) was collected from the southwest portion of the BGT footprint in an area of visible staining. A 5-point composite sample (SC-1) of the BGT footprint (S-1 through S-5) was collected for confirmation laboratory analysis.

2.0 Soil Sampling

On May 11, 2012, AES personnel conducted field screening and collected six soil samples (S-1 through S-6) from below the BGT. Soil samples were collected from approximately 0.5 to 1 foot below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 and S-6 were submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Soil Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors 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

Soil samples were also analyzed in the field for TPH per 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 Soil Laboratory Analyses

Soil sample S-6 and composite soil sample SC-1 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. The soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.
- Chloride per USEPA Method 300.0.

2.3 Soil Field and Laboratory Analytical Results

Field screening for VOCs via OVM showed readings of non-detect for all of the samples (S-1 through S-6). Field TPH concentrations ranged from 48.4 mg/kg in S-2 up to 37,400 mg/kg in S-6. Field screening VOC and TPH results are summarized in Table 1 and on Figure 2. The AES field screening report is attached.

Table 1. Soil Field Screening OVM and TPH Results
Huerfanito Unit 26R BGT Closure, May 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
NMOC Action Level (NMAC 19.15.17.13E)			--	100	250
S-1	05/11/12	0.5	0.0	106	NA
S-2	05/11/12	1.0	0.0	48.4	NA
S-3	05/11/12	1.0	0.0	949	NA
S-4	05/11/12	1.0	0.0	51.0	NA
S-5	05/11/12	1.0	0.0	37,400	NA

NA – Not Analyzed

Laboratory analytical results showed that benzene and total BTEX concentrations were below the laboratory detection limit in samples SC-1 and S-6. TPH concentrations were reported at less than 5.0 mg/kg GRO and at 10 mg/kg DRO in sample SC-1, and the chloride concentration was 11 mg/kg. TPH concentrations in sample S-6 were reported at less than 50 mg/kg GRO and at 1,100 mg/kg DRO. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Huerfanito Unit 26R BGT Closure, May 2012

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)			0.2/10*	50	100/5,000*		250
SC-1	05/11/12	1.0	<0.050	<0.25	<5.0	10	11
S-6	05/11/12	0.5	<0.50	<2.5	<50	1,100	NA

*Action level determined by the NMOCD ranking score per NMAC 19.15.17.13E and *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

NA – Not Analyzed

3.0 Conclusions

3.1 BGT Closure

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations for S-1, S-3, and S-6 were above the applicable NMOCD action level of 100 mg/kg with concentrations ranging from 106 mg/kg to 37,400 mg/kg. Based on field screening results on May 11, 2012, a release is confirmed at the Huerfanito Unit 26R BGT location.

3.2 Release Confirmation

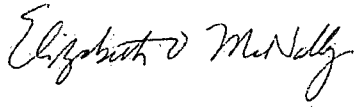
NMOCD action levels for releases are specified NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Soil laboratory analyses showed that benzene, BTEX, TPH and chloride concentrations were below the NMOCD action levels for releases in samples SC-1 and S-6. Release notification should follow the protocols outlined in NMAC 19.15.29 and 30. No further work is recommended.

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

Sincerely,



Heather Woods
Geologist



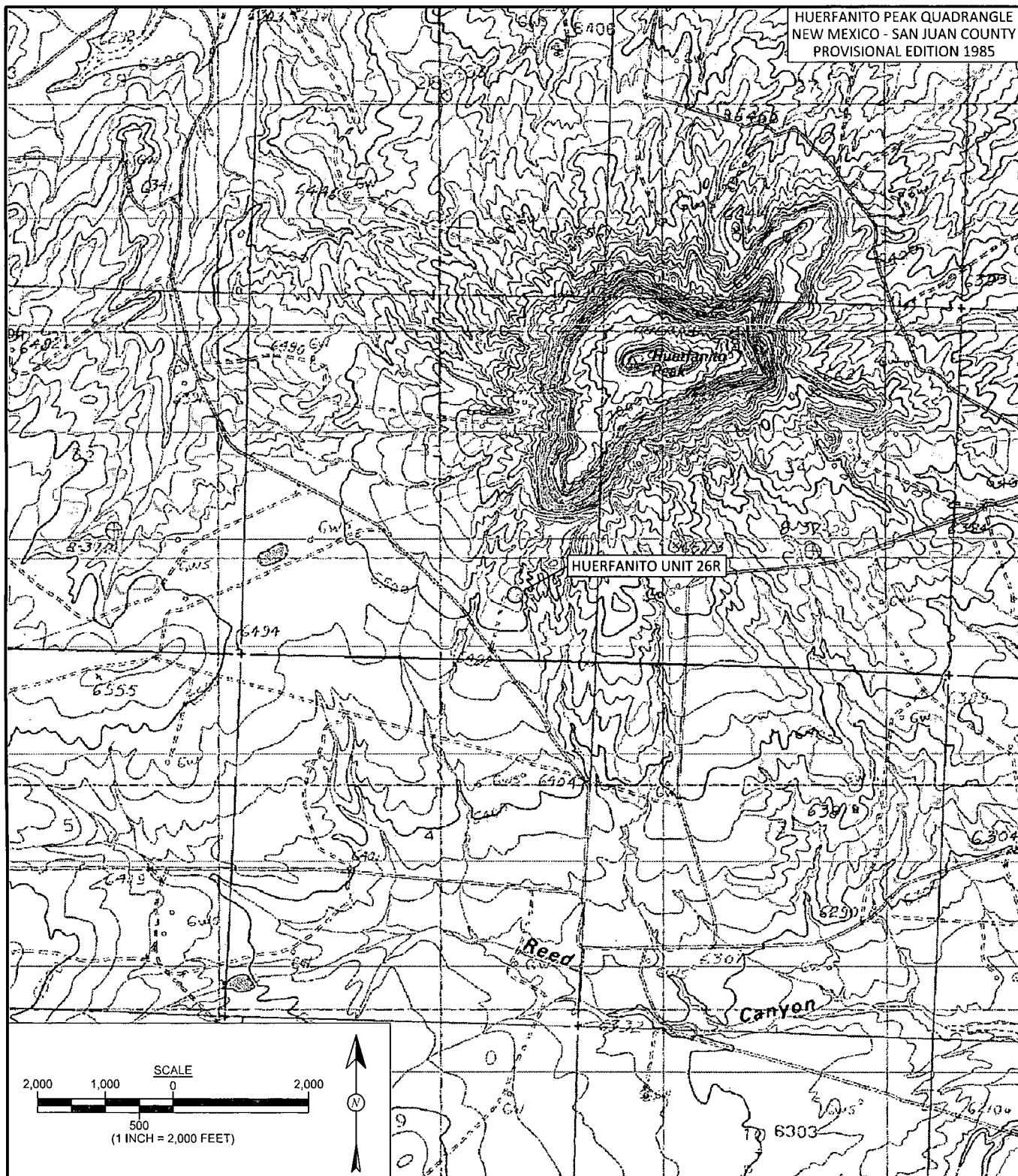
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2012
AES Field Screening Report 051112
Hall Analytical Report 1205557

S:\Animas 2000\2012 Projects\Conoco Phillips\Huerfanito Unit 26R\Huerfanito 26R BGT Closure &
Release Report 062612.docx

HUERFANITO PEAK QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
PROVISIONAL EDITION 1985



Animas Environmental Services, LLC

DRAWN BY:
N. Willis

DATE DRAWN:
June 18, 2012

REVISIONS BY:
N. Willis

DATE REVISED:
June 18, 2012

CHECKED BY:
H. Woods

DATE CHECKED:
June 25, 2012

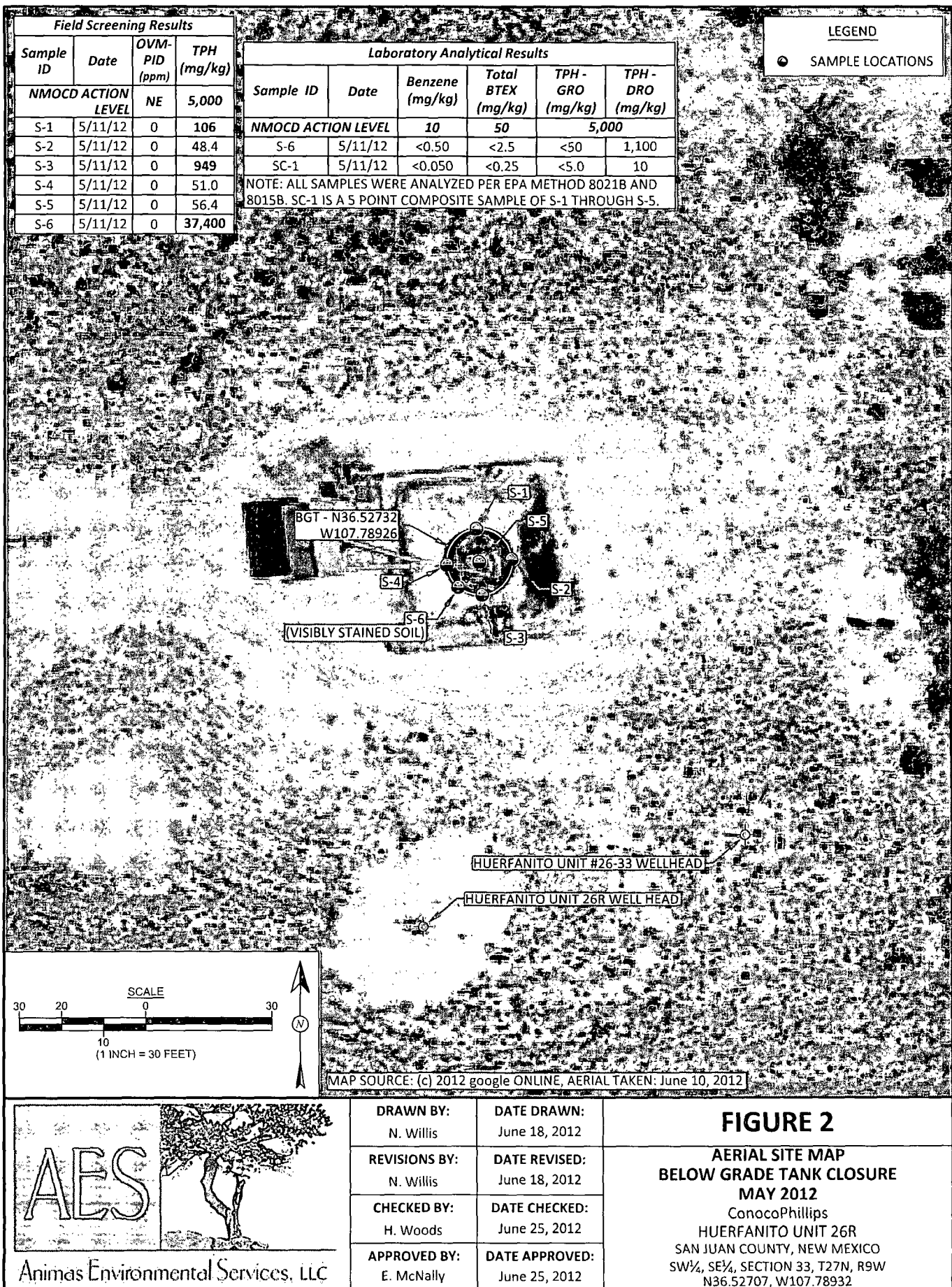
APPROVED BY:
E. McNally

DATE APPROVED:
June 25, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
HUERFANITO UNIT 26R
SAN JUAN COUNTY, NEW MEXICO
SW¼, SE¼, SECTION 33, T27N, R9W
N36.52707, W107.78932



AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

Client: ConocoPhillips

Project Location: Huerfanito Unit 26R

Date: 5/11/2012

Matrix: Soil

Sample ID <i>North BGT</i>	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	5/11/2012	11:18	North	0.0	NA	12:30	106.0	20.0	1	TR
S-2	5/11/2012	11:33	East	0.0	NA	12:34	48.4	20.0	1	TR
S-3	5/11/2012	11:44	South	0.0	NA	12:39	949	20.0	1	TR
S-4	5/11/2012	11:50	West	0.0	NA	12:44	51.0	20.0	1	TR
S-5	5/11/2012	11:55	Center	0.0	NA	12:48	56.4	20.0	1	TR
S-6	5/11/2012	11:45	Southwest	0.0	NA	12:53	37,400	2,000	100	TR

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

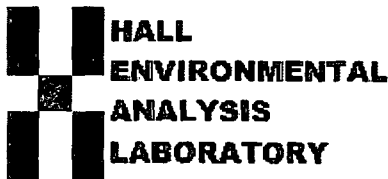
*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Jamie Ross



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

May 15, 2012

Tami Ross

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 793-2072
FAX

RE: COP Huerfanito Unit 26R

OrderNo.: 1205557

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/12/2012 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. 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. All samples are reported as received unless otherwise indicated.

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

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

Analytical Report

Lab Order 1205557

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** SC-1**Project:** COP Huerfanito Unit 26R**Collection Date:** 5/11/2012 11:58:00 AM**Lab ID:** 1205557-001**Matrix:** SOIL**Received Date:** 5/12/2012 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	10	10		mg/Kg	1	5/14/2012 9:23:22 AM
Surr: DNOP	109	77.4-131		%REC	1	5/14/2012 9:23:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/14/2012 1:55:58 PM
Surr: BFB	103	69.7-121		%REC	1	5/14/2012 1:55:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	5/14/2012 1:55:58 PM
Toluene	ND	0.050		mg/Kg	1	5/14/2012 1:55:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/14/2012 1:55:58 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/14/2012 1:55:58 PM
Surr: 4-Bromofluorobenzene	89.5	80-120		%REC	1	5/14/2012 1:55:58 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	11	7.5		mg/Kg	5	5/14/2012 6:38:48 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
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
RL Reporting Detection Limit

Analytical Report

Lab Order 1205557

Date Reported: 5/15/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** S-6**Project:** COP Huerfanito Unit 26R**Collection Date:** 5/11/2012 11:37:00 AM**Lab ID:** 1205557-002**Matrix:** SOIL**Received Date:** 5/12/2012 11:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	1,100	490		mg/Kg	50	5/14/2012 10:58:01 AM
Surr: DNOP	0	77.4-131	S	%REC	50	5/14/2012 10:58:01 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	5/14/2012 2:24:49 PM
Surr: BFB	104	69.7-121		%REC	10	5/14/2012 2:24:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.50		mg/Kg	10	5/14/2012 2:24:49 PM
Toluene	ND	0.50		mg/Kg	10	5/14/2012 2:24:49 PM
Ethylbenzene	ND	0.50		mg/Kg	10	5/14/2012 2:24:49 PM
Xylenes, Total	ND	1.0		mg/Kg	10	5/14/2012 2:24:49 PM
Surr: 4-Bromofluorobenzene	91.1	80-120		%REC	10	5/14/2012 2:24:49 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205557

15-May-12

Client: Animas Environmental Services

Project: COP Huerfanito Unit 26R

Sample ID	MB-1915	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	1915	RunNo	2733					
Prep Date	5/14/2012	Analysis Date	5/14/2012	SeqNo	75788	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-1915	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	1915	RunNo	2733					
Prep Date	5/14/2012	Analysis Date	5/14/2012	SeqNo	75789	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Sample ID	1205557-001AMS	SampType	MS	TestCode	EPA Method 300.0: Anions					
Client ID	SC-1	Batch ID	1915	RunNo	2733					
Prep Date	5/14/2012	Analysis Date	5/14/2012	SeqNo	75791	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24	7.5	15.00	11.19	85.3	74.6	118			

Sample ID	1205557-001AMSD	SampType	MSD	TestCode	EPA Method 300.0: Anions					
Client ID	SC-1	Batch ID	1915	RunNo	2733					
Prep Date	5/14/2012	Analysis Date	5/14/2012	SeqNo	75792	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24	7.5	15.00	11.19	85.2	74.6	118	0.0538	20	

Sample ID	1205471-002AMS	SampType	MS	TestCode	EPA Method 300.0: Anions					
Client ID	BatchQC	Batch ID	1915	RunNo	2751					
Prep Date	5/14/2012	Analysis Date	5/14/2012	SeqNo	76429	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	41	1.5	15.00	26.78	91.7	74.6	118			

Sample ID	1205471-002AMSD	SampType	MSD	TestCode	EPA Method 300.0: Anions					
Client ID	BatchQC	Batch ID	1915	RunNo	2751					
Prep Date	5/14/2012	Analysis Date	5/14/2012	SeqNo	76430	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	42	1.5	15.00	26.78	103	74.6	118	4.20	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205557

15-May-12

Client: Animas Environmental Services

Project: COP Huerfanito Unit 26R

Sample ID	MB-1919		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	PBS		Batch ID:	1919		RunNo:	2729				
Prep Date:	5/14/2012		Analysis Date:	5/14/2012		SeqNo:	75765		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	9.6		10.00		96.2	77.4	131				

Sample ID	LCS-1919		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 1919		RunNo: 2729					
Prep Date:	5/14/2012		Analysis Date: 5/14/2012		SeqNo: 75979		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.5	62.7	139			
Surr: DNOP	4.4		5.000		87.7	77.4	131			

Sample ID	MB-1913		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS		Batch ID: 1913		RunNo: 2729					
Prep Date:	5/13/2012		Analysis Date: 5/14/2012		SeqNo: 76201		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.3	82.1	121			

Sample ID	LCS-1913		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 1913		RunNo: 2729					
Prep Date:	5/13/2012		Analysis Date: 5/14/2012		SeqNo: 76202		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		89.0	82.1	121			

Sample ID	1205505-001AMS		SampType: MS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC		Batch ID: 1913		RunNo: 2729					
Prep Date:	5/13/2012		Analysis Date: 5/14/2012		SeqNo: 76208		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.139		105	82.1	121			

Sample ID	1205505-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	1913		RunNo:	2729				
Prep Date:	5/13/2012		Analysis Date:	5/14/2012		SeqNo:	76283		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.1		4.960		103	82.1	121	0	0		

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205557

15-May-12

Client: Animas Environmental Services

Project: COP Huerfanito Unit 26R

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77019	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	1,000		1,000		102	69.7	121			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77020	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	98.5	133			
Surr: BFB	1,100		1,000		110	69.7	121			

Sample ID	1205556-001A MS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77022	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	190	25	102.1	87.34	104	85.4	147			
Surr: BFB	16,000		4,085		391	69.7	121			S

Sample ID	1205556-001A MSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77023	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	190	25	102.1	87.34	101	85.4	147	1.96	19.2	
Surr: BFB	16,000		4,085		393	69.7	121	0	0	S

Sample ID	MB-1908	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1908	RunNo:	2746					
Prep Date:	5/11/2012	Analysis Date:	5/14/2012	SeqNo:	77029	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID	LCS-1908	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1908	RunNo:	2746					
Prep Date:	5/11/2012	Analysis Date:	5/14/2012	SeqNo:	77030	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,100		1,000		110	69.7	121			

Qualifiers:

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E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205557

15-May-12

Client: Animas Environmental Services

Project: COP Huerfano Unit 26R

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77040	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77041	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.050	1.000	0	84.8	83.3	107			
Toluene	0.87	0.050	1.000	0	86.8	74.3	115			
Ethylbenzene	0.83	0.050	1.000	0	82.9	80.9	122			
Xylenes, Total	2.5	0.10	3.000	0	83.6	85.2	123			S
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	80	120			

Sample ID	1205557-001A MS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77042	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.050	0.7086	0	86.6	67.2	113			
Toluene	0.64	0.050	0.7086	0	90.3	62.1	116			
Ethylbenzene	0.62	0.050	0.7086	0	88.1	67.9	127			
Xylenes, Total	1.9	0.10	2.126	0	88.3	60.6	134			
Surr: 4-Bromofluorobenzene	0.68		0.7086		95.3	80	120			

Sample ID	1205557-001A MSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	R2746	RunNo:	2746					
Prep Date:		Analysis Date:	5/14/2012	SeqNo:	77043	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.57	0.050	0.7086	0	81.0	67.2	113	6.76	14.3	
Toluene	0.60	0.050	0.7086	0	84.1	62.1	116	7.12	15.9	
Ethylbenzene	0.58	0.050	0.7086	0	82.3	67.9	127	6.76	14.4	
Xylenes, Total	1.8	0.10	2.126	0	83.2	60.6	134	5.99	12.6	
Surr: 4-Bromofluorobenzene	0.67		0.7086		94.8	80	120	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD 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

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205557

15-May-12

Client: Animas Environmental Services

Project: COP Huerfanito Unit 26R

Sample ID	MB-1908	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBS	Batch ID	1908	RunNo	2746					
Prep Date	5/11/2012	Analysis Date	5/14/2012	SeqNo	77051	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.1	80	120			

Sample ID	LCS-1908	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSS	Batch ID	1908	RunNo	2746					
Prep Date	5/11/2012	Analysis Date	5/14/2012	SeqNo	77052	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	80	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
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Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1205557

Received by/date: AF 05/12/12

Logged By: Anne Thorne 5/12/2012 11:20:00 AM

Completed By: Anne Thorne 5/13/2012

Reviewed By: AT 05/13/12

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☒ No ☐
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. 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)

17. 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:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Yes			

☐ EDD (Type)

Sample Temperature: 27.9°C

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

X	BTEX + MTBE EMBs 's (8021)
	BTEX + MTBE + TPH (Gas only)
X	TPH Method 8015B (Gas/Diesel)
	TPH (Method 418.1)
	EDB (Method 504.1)
	8310 (PNA or PAH)
	RCRA 8 Metals
	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
	8081 Pesticides / 8082 PCB's
	8260B (VOA)
	8270 (Semi-VOA)
X	Chlorides 300.0

[illegible]

Container Type and #	Material	Quantity	Weight	Volume	Notes
1
2
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Preservative
Type

HEALING

MeOH Kit	2402
MeOH Kit	1402

MeOH
MeOH

—

Date _____ Time _____

5/11/17 1543

Date Time

5/6/66 11:20

Remarks:

Bill TO COND CO PHILLIPS

WFO: 10332109
activity code: C200
supervisor: Harry Dee

user ID: KA1TLW
ordered by: Bruce Yazzie
line 9: 21