

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 ConocoPhillips Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Tocito 1	Facility Type: P&A Well

Surface Owner Tribal	Mineral Owner Tribal (I-149-IND-5852)	API No. 30-045-60027
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	17	26N	18W	3300	North	660	West	San Juan

Latitude 36.48748 Longitude 108.79049

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered None
Source of Release Containment Berm	Date and Hour of Occurrence Unknown	Date and Hour of Discovery September 20, 2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	RCVD FEB 22 '13
By Whom?	Date and Hour	OIL CONS. DIV.
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	DIST. 3

If a Watercourse was Impacted, Describe Fully.*
N/A

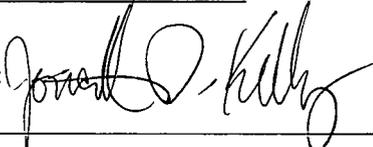
Describe Cause of Problem and Remedial Action Taken.*

Secondary Containment Berm and visually impacted soil found during second P&A of location. The impacted soil was tested and then removed and transported to a permitted landfarm for disposal.

Describe Area Affected and Cleanup Action Taken.*

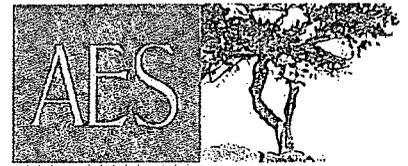
The regulatory standard for closure at this site was determined to be 5000 ppm. Samples were taken and then transported to the lab and analytical results for TPH, BTEX and RCRA 8 were conducted. The results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. However, based on visual observations along with field screening and lab results, suspected hydraulic oil surface staining existed and was removed. No further remedial action will be taken. The final report is attached for review.

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

Signature: 	OIL CONSERVATION DIVISION	
	Approved by Environmental Specialist: 	
Printed Name: Crystal Tafoya	Approval Date: 3/7/2013	Expiration Date:
Title: Field Environmental Specialist	Conditions of Approval:	
E-mail Address: crystal.tafoya@conocophillips.com	Attached <input type="checkbox"/>	
Date: 2/18/2013 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

NJK 1306632658



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

January 2, 2013

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-05
5525 Hwy 64
Farmington, New Mexico 87401

**RE: Initial Release Assessment Report
Tocito #1
San Juan County, New Mexico**

Dear Ms. Tafoya:

On September 25, 2012, Animas Environmental Services, LLC (AES) completed a release assessment at the ConocoPhillips (CoP) Tocito #1, located in San Juan County, New Mexico. Petroleum impacted soils were identified within a former secondary containment berm and as isolated spots on the location.

1.0 Site Information

1.1 Location

Location – NW¼ SW¼, Section 17, T26N, R18W, San Juan County, New Mexico
Monument Latitude/Longitude – N36.48748 and W108.79049, respectively
Release Latitude/Longitude – N36.48743 and W107.79083, respectively
Land Jurisdiction – Navajo Tribal Land
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, September 2012

1.2 Site Ranking

The release area is located within the boundaries of the Navajo Nation. Navajo Nation Environmental Protection Agency (NNEPA) adheres to action levels for releases and spills as established by the New Mexico Oil Conservation Division (NMOCD).

Prior to site work, the NMOCD database was reviewed, and no records were obtained to assist in determining a ranking score for the release location. The New Mexico Office of the State Engineer (NMOSE) database was reviewed for the presence of nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery

Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on-site, AES personnel assessed the NMOCD ranking criteria using topographical interpretation, Global Position 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). The distance to the nearest surface water body, a livestock pond, is located approximately 1,700 feet northeast of the location. The site location has been assigned a ranking score of 0 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Release Assessment

AES was initially contacted by Crystal Tafoya of CoP on September 20, 2012, to assess discolored soils and staining at the location, and on September 25, 2012, Heather Woods and Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field screening of 31 soil samples from 15 soil borings (SB-1 through SB-15) within the secondary containment berm and from visible surface stains. Two composite soil samples SC-1 (SB-1 through SB-6) and SC-2 (SB-7 through SB-15) were also collected at this time. Sample locations are shown on Figure 3.

2.0 Soil Sampling

A total of 31 soil samples were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two composite samples (SC-1 and SC-2) were submitted for confirmation laboratory analysis and waste characterization.

2.1 Field Screening

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 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 composite soil samples (SC-1 and SC-2) 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. Soil samples SC-1 and SC-2 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015B;
- Toxicity Characteristic Leaching Procedure (TCLP) Resource Conservation Recovery Act (RCRA) 8 Metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver per USEPA Method 6010B;
- Reactivity, Corrosivity, and Ignitability.

2.3 Field Screening and Analytical Results

On September 25, 2012, assessment field screening results for VOCs via OVM showed concentrations ranging from 1.5 ppm in SB-6 up to 8.8 ppm in SB-8. Field TPH concentrations ranged from 35.2 mg/kg in SB-2 to greater than 2,500 mg/kg in SB-7 and SB-9. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Table 1. Soil Field Screening Results
Tocito #1 Release Assessment, September 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>
			<i>NMOCD Action Level*</i>	<i>100</i>
				<i>5,000</i>
SB-1	09/25/12	0	2.1	60.3
		1.5	2.9	53.1
		2	3.5	NA
SB-2	9/25/12	0	2.6	53.1
		1	5.1	35.2
SB-3	9/25/12	0	3.4	59.1
		1	3.2	57.9
		1.75	4.9	NA
SB-4	9/25/12	0	6.1	48.4

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>
		<i>NMOCD Action Level*</i>		
			100	5,000
SB-4	9/25/12	1	5.4	51.9
		2	5.0	NA
SB-5	9/25/12	0	4.1	61.5
		1	3.8	53.1
SB-6	9/25/12	0	1.5	49.5
		1	1.6	51.9
		1.5	3.0	NA
SB-7	9/25/12	0	3.0	NA
		1	2.4	>2,500
SB-8	9/25/12	1.25	2.1	>2,500
		0	7.8	656
		1	8.8	NA
SB-9	9/25/12	1.5	5.7	85.4
		0	4.2	>2,500
SB-10	9/25/12	1	3.8	NA
		1.5	4.0	755
SB-11	9/25/12	0	3.4	234
SB-12	9/25/12	0	3.3	164
SB-13	9/25/12	0	4.6	93.7
SB-14	9/25/12	0	3.0	110
SB-15	9/25/12	0	2.7	71.0
		0	1.6	113

NA – Not Analyzed;

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

Laboratory results for SC-1 and SC-2 were used to confirm field screening results from the release assessment. Benzene and total BTEX concentrations in SC-1 and SC-2 were reported at less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations as GRO/DRO/ MRO were reported as less than 65 mg/kg (SC-1) and 50,000 mg/kg (SC-2). Results are presented in Table 2 and on Figures 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, BTEX, and TPH
Tocito #1 Release Assessment, September 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>TPH-GRO (mg/kg)</i>	<i>TPH-DRO (mg/kg)</i>	<i>TPH-MRO (mg/kg)</i>
NMOCD Action Level*			10	50	5,000		
SC-1	9/25/12	0 to 1.5	<0.050	<0.25	<5.0	<10	<50
SC-2	9/25/12	0	<0.050	<0.25	<5.0	15,000	35,000

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

3.0 Conclusions and Recommendations

On September 25, 2012, AES conducted a release assessment on petroleum impacted soils at the Tocito #1. NNEPA utilizes action levels for releases determined by NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a rank of 0. Field screening showed concentrations below the NMOCD action level of 100 ppm for VOCs in all of the soil borings (SB-1 through SB-15), with the highest VOC concentration in SB-8 (8.8 ppm). Field screening results for TPH were greater than 2,500 mg/kg in SB-7 and SB-9. Laboratory analytical results for SC-2 reported total TPH concentrations above the NMOCD action level of 5,000 mg/kg with 50,000 mg/kg.

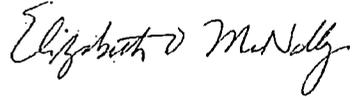
Based on field screening and laboratory analytical results for benzene, total BTEX, and TPH, soils within the bermed area have not been impacted by petroleum hydrocarbons above NMOCD action levels. However, based on visual observations along with field screening and laboratory analytical results, suspected hydraulic oil surface staining exists at the location with TPH concentrations above NMOCD action levels. AES recommends that the petroleum impacted soils be removed from the location. Following removal of impacted soils, additional confirmation soil samples should be collected for clearance of the excavation limits.

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

Sincerely,



Heather Woods
Staff Geologist

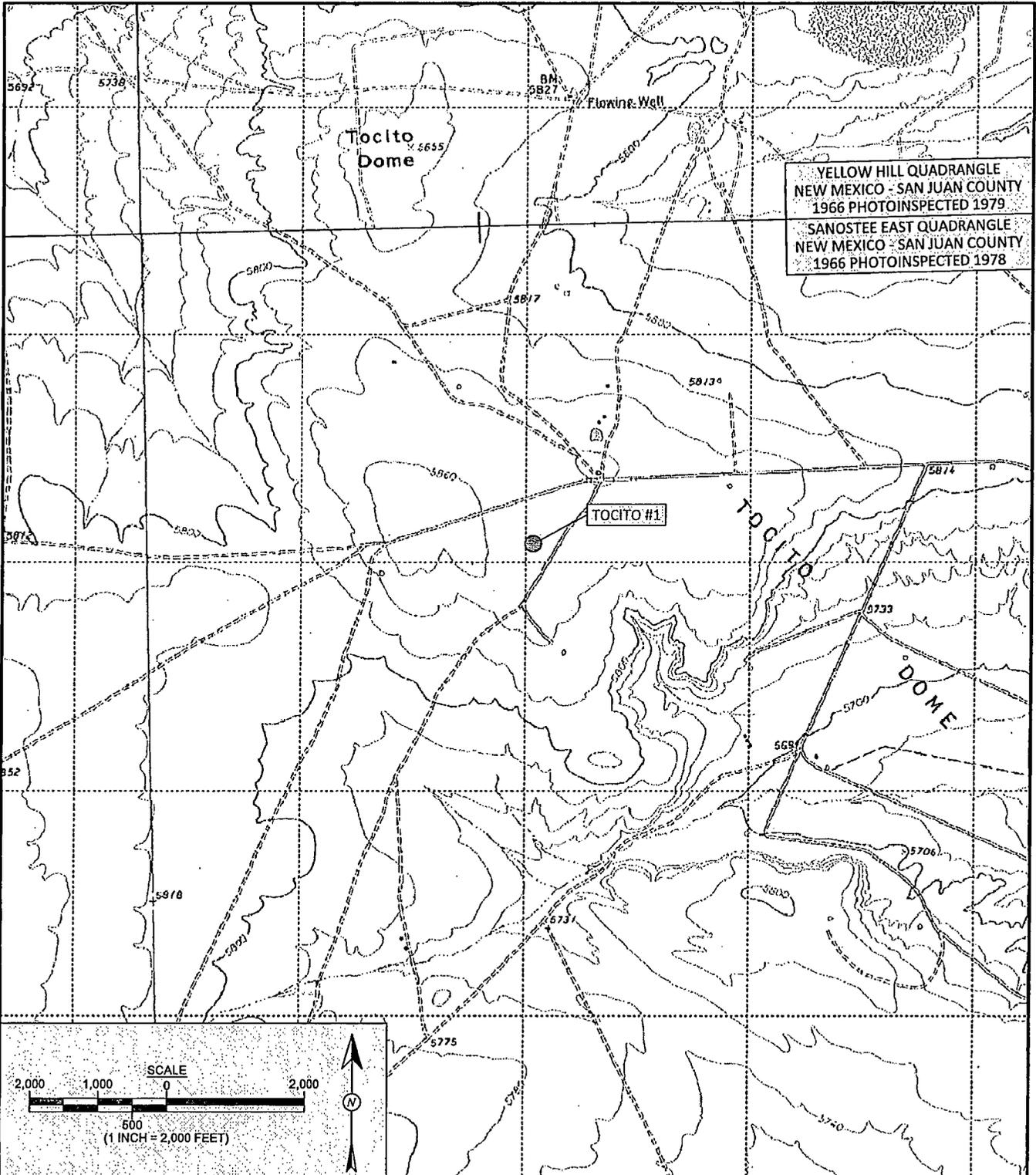


Elizabeth McNally, PE

Attachments:

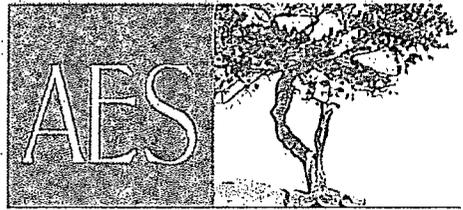
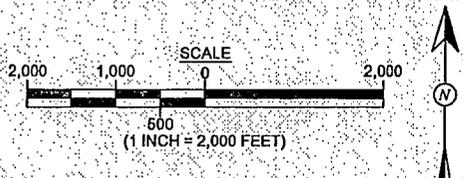
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, September 2012
- Figure 3. Release Assessment Soil Sample Locations and Results, September 2012
- AES Field Screening Report 092512
- Hall Analytical Report 1209B53

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Tocito #1\Tocito #1 Release Assessment Report 010213.docx



YELLOW HILL QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 1966 PHOTOINSPECTED 1979

SANOSTEE EAST QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 1966 PHOTOINSPECTED 1978

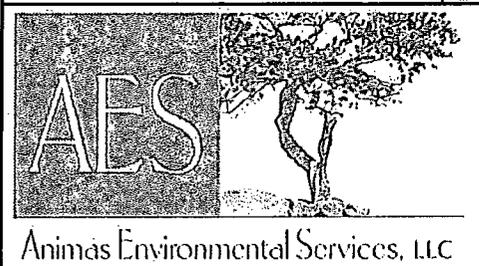


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 28, 2012
REVISIONS BY: C. Lameman	DATE REVISED: December 21, 2012
CHECKED BY: D. Watson	DATE CHECKED: December 21, 2012
APPROVED BY: E. McNally	DATE APPROVED: December 21, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 TOCITO #1
 SAN JUAN COUNTY, NEW MEXICO
 NW¼ SW¼, SECTION 17, T26N, R18W
 N36.48748, W108.79049



DRAWN BY: C. Lameman	DATE DRAWN: September 28, 2012
REVISIONS BY: C. Lameman	DATE REVISED: December 21, 2012
CHECKED BY: D. Watson	DATE CHECKED: December 21, 2012
APPROVED BY: E. McNally	DATE APPROVED: December 21, 2012

FIGURE 2

**AERIAL SITE MAP
SEPTEMBER 2012**

ConocoPhillips
TOCITO #1
SAN JUAN COUNTY, NEW MEXICO
NW¼ SW¼, SECTION 17, T26N, R18W
N36.48748, W108.79049

Laboratory Analytical Results						
Sample ID	Date	Benzene (mg/kg)	BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
NMOCD ACTION LEVEL		10	50	5,000		
SC-1	9/25/12	<0.050	<0.25	<5.0	<10	<50
SC-2	9/25/12	<0.050	<0.25	<5.0	15,000	35,000

SC-1 WAS A COMPOSITE OF SB-1 THROUGH SB-6.
SC-2 WAS A COMPOSITE OF ALL FIVE SURFACE STAININGS.
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015B.

Field Screening Results				
Sample ID	Date	Depth (ft)	OVMPID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL		100	5,000	
SB-1	9/25/12	0	2.1	60.3
		1.5	2.9	53.1
		2	3.5	NA
SB-2	9/25/12	0	2.6	53.1
		1	5.1	35.2
SB-3	9/25/12	0	3.4	59.1
		1	3.2	57.9
		1.75	4.9	NA
SB-4	9/25/12	0	6.1	48.4
		1	5.4	51.9
		2	5.0	NA
SB-5	9/25/12	0	4.1	61.5
		1	3.8	53.1
		0	1.5	49.5
SB-6	9/25/12	1	1.6	51.9
		1.5	3.0	NA
		0	3.0	NA
SB-7	9/25/12	1	2.4	>2,500
		1.25	2.1	>2,500
		0	7.8	656
SB-8	9/25/12	1	8.8	NA
		1.5	5.7	85.4
		0	4.2	>2,500
SB-9	9/25/12	1	3.8	NA
		1.5	4.0	755
		0	3.4	234
SB-10	9/25/12	0	3.3	164
SB-11	9/25/12	0	4.6	93.7
SB-12	9/25/12	0	3.0	110
SB-13	9/25/12	0	2.7	71.0
SB-14	9/25/12	0	1.6	113
SB-15	9/25/12	0		

NA - NOT ANALYZED

FIGURE 3

RELEASE ASSESSMENT SOIL SAMPLE LOCATIONS AND RESULTS
SEPTEMBER 2012

ConocoPhillips
TOCITO #1
SAN JUAN COUNTY, NEW MEXICO
N36°SW¼, SECTION 17, T26N, R18W
N36.48748, W108.79049



Animas Environmental Services, LLC

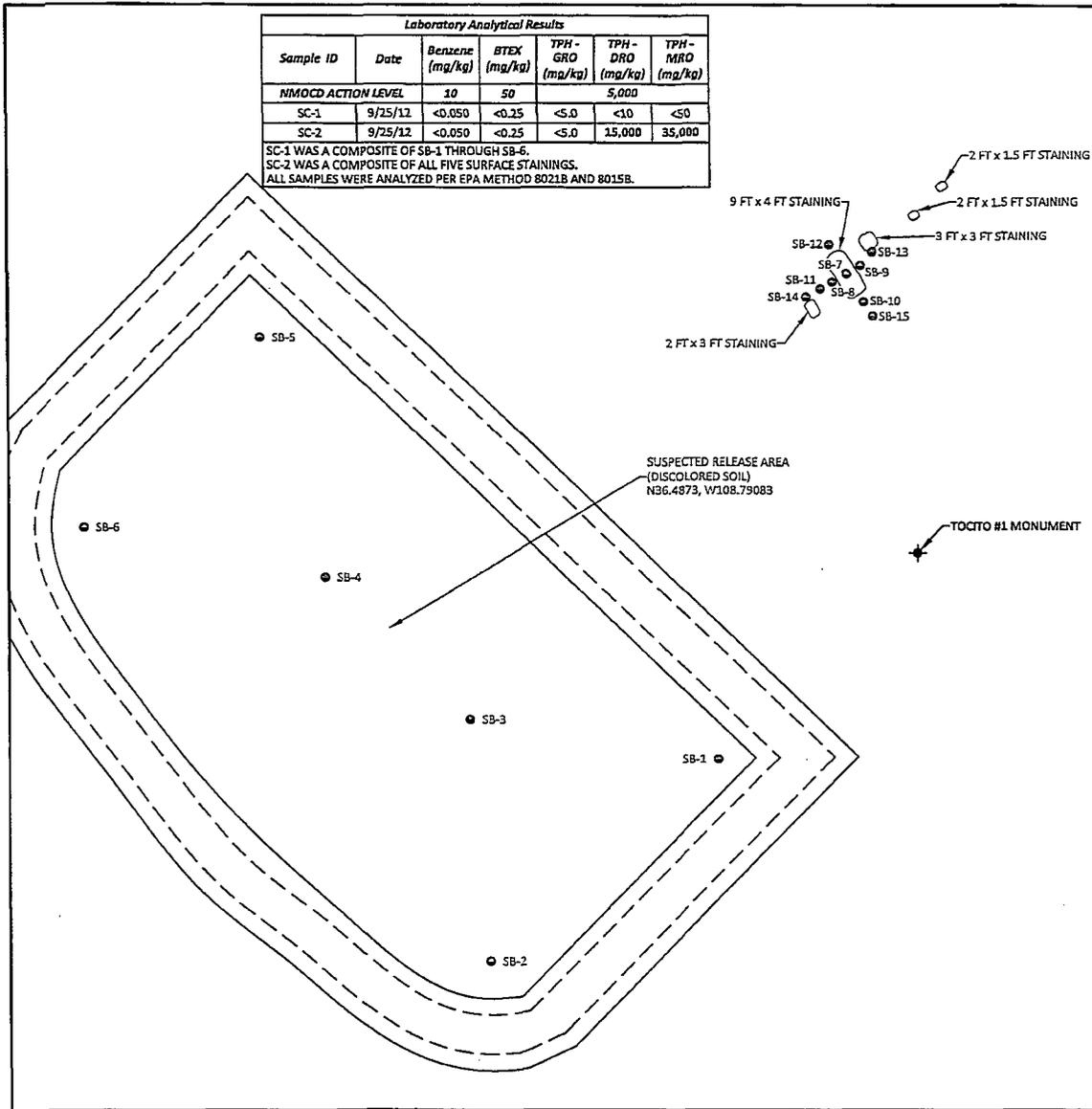
DRAWN BY: C. Lameman	DATE DRAWN: October 1, 2012
REVISIONS BY: C. Lameman	DATE REVISED: December 21, 2012
CHECKED BY: D. Watson	DATE CHECKED: December 21, 2012
APPROVED BY: E. McNally	DATE APPROVED: December 21, 2012

LEGEND

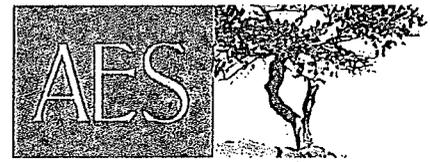
- SAMPLE LOCATIONS
- ==== SECONDARY CONTAINMENT BERM



SCALE
0 10 20
1 INCH = 20 FEET



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: Tocito #1

Date: 9/25/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0'	9/25/2012	8:20	2.1	10:21	60.3	20.0	1	HMW
SB-1 @ 1.5'	9/25/2012	8:23	2.9	10:24	53.1	20.0	1	HMW
SB-1 @ 2'	9/25/2012	8:27	3.5	<i>Not Analyzed for TPH</i>				
SB-2 @ 0'	9/25/2012	8:32	2.6	10:27	53.1	20.0	1	HMW
SB-2 @ 1'	9/25/2012	8:37	5.1	10:29	35.2	20.0	1	HMW
SB-3 @ 0'	9/25/2012	8:45	3.4	10:32	59.1	20.0	1	HMW
SB-3 @ 1'	9/25/2012	8:50	3.2	10:34	57.9	20.0	1	HMW
SB-3 @ 1.75'	9/25/2012	8:55	4.9	<i>Not Analyzed for TPH</i>				
SB-4 @ 0'	9/25/2012	8:58	6.1	10:45	48.4	20.0	1	HMW
SB-4 @ 1'	9/25/2012	9:31	5.4	10:47	51.9	20.0	1	HMW
SB-4 @ 2'	9/25/2012	9:35	5.0	<i>Not Analyzed for TPH</i>				
SB-5 @ 0'	9/25/2012	9:38	4.1	10:50	61.5	20.0	1	HMW
SB-5 @ 1'	9/25/2012	9:41	3.8	10:53	53.1	20.0	1	HMW
SB-6 @ 0'	9/25/2012	9:45	1.5	10:37	49.5	20.0	1	HMW
SB-6 @ 1'	9/25/2012	9:50	1.6	10:41	51.9	20.0	1	HMW
SB-6 @ 1.5'	9/25/2012	9:54	3.0	<i>Not Analyzed for TPH</i>				
SB-7 @ 0'	9/25/2012	11:00	3.0	<i>Not Analyzed for TPH</i>				
SB-7 @ 1'	9/25/2012	11:04	2.4	12:23	>2,500	20.0	1	HMW
SB-7 @ 1.25'	9/25/2012	11:08	2.1	12:26	>2,500	20.0	1	HMW
SB-8 @ 0'	9/25/2012	11:22	7.8	11:47	656	20.0	1	HMW
SB-8 @ 1'	9/25/2012	11:25	8.8	<i>Not Analyzed for TPH</i>				
SB-8 @ 1.5'	9/25/2012	11:29	5.7	11:50	85.4	20.0	1	HMW

Tocito #1

Page 1

Report Finalized: 09/25/12

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
SB-9 @ 0'	9/25/2012	11:33	4.2	11:53	>2,500	20.0	1	HMW	
SB-9 @ 1'	9/25/2012	11:36	3.8	Not Analyzed for TPH					
SB-9 @ 1.5'	9/25/2012	11:42	4.0	11:56	755	20.0	1	HMW	
SB-10 @ 0'	9/25/2012	12:00	3.4	12:31	234	20.0	1	HMW	
SB-11 @ 0'	9/25/2012	12:05	3.3	12:34	164	20.0	1	HMW	
SB-12 @ 0'	9/25/2012	12:09	4.6	12:37	93.7	20.0	1	HMW	
SB-13 @ 0'	9/25/2012	12:12	3.0	12:40	110	20.0	1	HMW	
SB-14 @ 0'	9/25/2012	12:17	2.7	12:43	71.0	20.0	1	HMW	
SB-15 @ 0'	9/25/2012	12:47	1.6	13:02	113	20.0	1	HMW	

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst:

Leather M. Woods

*Field TPH concentrations recorded may be below PQL.



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

October 03, 2012

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP Tocito #1

OrderNo.: 1209B53

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/26/2012 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. 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.

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.

Analytical Report

Lab Order 1209B53

Date Reported: 10/3/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: CoP Tocito #1

Collection Date: 9/25/2012 12:26:00 PM

Lab ID: 1209B53-001

Matrix: MEOH (SOIL)

Received Date: 9/26/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/27/2012 8:42:00 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/27/2012 8:42:00 AM
Surr: DNOP	112	77.6-140		%REC	1	9/27/2012 8:42:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2012 2:16:54 PM
Surr: BFB	105	84-116		%REC	1	9/27/2012 2:16:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	9/26/2012 2:50:23 PM
Toluene	ND	0.050		mg/Kg	1	9/26/2012 2:50:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/26/2012 2:50:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/26/2012 2:50:23 PM
Surr: 4-Bromofluorobenzene	96.8	80-120		%REC	1	9/26/2012 2:50:23 PM
MERCURY, TCLP						Analyst: IDC
Mercury	ND	0.020		mg/L	1	10/2/2012 3:56:08 PM
EPA METHOD 6010B: TCLP METALS						Analyst: ELS
Arsenic	ND	5.0		mg/L	1	10/2/2012 6:18:14 AM
Barium	ND	100		mg/L	1	10/2/2012 6:18:14 AM
Cadmium	ND	1.0		mg/L	1	10/2/2012 6:18:14 AM
Chromium	ND	5.0		mg/L	1	10/2/2012 6:18:14 AM
Lead	ND	5.0		mg/L	1	10/2/2012 6:18:14 AM
Selenium	ND	1.0		mg/L	1	10/2/2012 6:18:14 AM
Silver	ND	5.0		mg/L	1	10/2/2012 6:18:14 AM

Qualifiers: * Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH greater than 2
 RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1209B53
 Date Reported: 10/3/2012

CLIENT: Animas Environmental Services **Client Sample ID:** SC-2
Project: CoP Tocito #1 **Collection Date:** 9/25/2012 12:28:00 PM
Lab ID: 1209B53-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/26/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	15000	970		mg/Kg	100	9/27/2012 4:53:21 PM
Motor Oil Range Organics (MRO)	35000	4900		mg/Kg	100	9/27/2012 4:53:21 PM
Surr: DNOP	0	77.6-140	S	%REC	100	9/27/2012 4:53:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2012 2:45:40 PM
Surr: BFB	102	84-116		%REC	1	9/27/2012 2:45:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	9/26/2012 3:19:13 PM
Toluene	ND	0.050		mg/Kg	1	9/26/2012 3:19:13 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/26/2012 3:19:13 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/26/2012 3:19:13 PM
Surr: 4-Bromofluorobenzene	98.8	80-120		%REC	1	9/26/2012 3:19:13 PM
MERCURY, TCLP						Analyst: IDC
Mercury	ND	0.020		mg/L	1	10/2/2012 3:57:53 PM
EPA METHOD 6010B: TCLP METALS						Analyst: ELS
Arsenic	ND	5.0		mg/L	1	10/2/2012 6:20:28 AM
Barium	ND	100		mg/L	5	10/2/2012 6:40:53 AM
Cadmium	ND	1.0		mg/L	1	10/2/2012 6:20:28 AM
Chromium	ND	5.0		mg/L	1	10/2/2012 6:20:28 AM
Lead	ND	5.0		mg/L	1	10/2/2012 6:20:28 AM
Selenium	ND	1.0		mg/L	1	10/2/2012 6:20:28 AM
Silver	ND	5.0		mg/L	1	10/2/2012 6:20:28 AM

Qualifiers:

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



YOUR LAB OF CHOICE

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

October 01, 2012

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

ESC Sample # : L597599-01

Date Received : September 27, 2012
Description :

Site ID :

Sample ID : 1209B53-001B SC-1

Project # :

Collected By :
Collection Date : 09/25/12 12:26

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	Non-Corrosive			9045D	10/01/12	1
Ignitability	See Footnote		Deg. F	D93/1010A	09/29/12	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/kg	9012B	10/01/12	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/kg	9034/9030B	09/27/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 10/01/12 16:30 Printed: 10/01/12 16:51
L597599-01 (IGNITABILITY) - Did Not Ignite @ 170 F



12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

October 01, 2012

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

Date Received : September 27, 2012
Description :
Sample ID : 1209B53-001B SC-2
Collected By :
Collection Date : 09/25/12 12:28

ESC Sample # : L597599-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	Non-Corrosive			9045D	10/01/12	1
Ignitability	See Footnote		Deg. F	D93/1010A	09/29/12	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/kg	9012B	10/01/12	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/kg	9034/9030B	09/27/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 10/01/12 16:30 Printed: 10/01/12 16:51
L597599-02 (IGNITABILITY) - Did Not Ignite @ 170 F



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YOUR LAB OF CHOICE

Hall Environmental Analysis Laboratory
 Anne Thorne
 4901 Hawkins NE

Quality Assurance Report
 Level II

Albuquerque, NM 87109

L597599

October 01, 2012

Analyte	Result	Laboratory Blank Units	% Rec	Limit	Batch	Date Analyzed
Reactive Sulf. (SW846 7.3.4.1)	< 25	mg/kg			WG614989	09/27/12 23:37
Reactive CN (SW846 7.3.3.2)	< .125	mg/kg			WG615002	10/01/12 09:47

Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch
			Duplicate	RPD			
Reactive Sulf. (SW846 7.3.4.1)	mg/kg	0	0	0	20	L597286-02	WG614989
Reactive Sulf. (SW846 7.3.4.1)	mg/kg	0	0	0	20	L597592-02	WG614989
Ignitability	Deg. F	0	0	0	10	L597305-01	WG615257
Ignitability	Deg. F	0	0	0	10	L597599-02	WG615257
Corrosivity		0	0	0	10	L597599-02	WG615388
Reactive CN (SW846 7.3.3.2)	mg/kg	0	0	0	20	L597286-02	WG615002
Reactive CN (SW846 7.3.3.2)	mg/kg	0	0	0	20	L597592-02	WG615002

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Reactive Sulf. (SW846 7.3.4.1)	mg/kg	100	78.4	78.4	70-130	WG614989
Ignitability	Deg. F	82	83.0	101.	93-107	WG615257
Corrosivity		6.03	6.00	99.5	98-101	WG615388

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	% Rec				
Reactive Sulf. (SW846 7.3.4.1)	mg/kg	86.3	78.4	86.0	70-130	9.59	20	WG614989
Ignitability	Deg. F	82.0	83.0	100.	93-107	1.21	20	WG615257
Corrosivity		6.01	6.00	100.	98-101	0.167	10	WG615388

Batch number / Run number / Sample number cross reference

WG614989: R2369018: L597599-01 02
 WG615257: R2370993: L597599-01 02
 WG615388: R2371378: L597599-01 02
 WG615002: R2371753: L597599-01 02

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B53

03-Oct-12

Client: Animas Environmental Services

Project: CoP Tocito #1

Sample ID	MB-3935	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	3935	RunNo:	5768					
Prep Date:	9/26/2012	Analysis Date:	9/26/2012	SeqNo:	166136	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		131	77.6	140			

Sample ID	LCS-3935	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	3935	RunNo:	5768					
Prep Date:	9/26/2012	Analysis Date:	9/26/2012	SeqNo:	166144	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	45	10	50.00	0	90.3	52.6	130			
Surr: DNOP	5.9		5.000		118	77.6	140			

Sample ID	1209A69-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	3935	RunNo:	5797					
Prep Date:	9/26/2012	Analysis Date:	9/27/2012	SeqNo:	166858	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	43	10	50.92	0	85.3	57.2	146			
Surr: DNOP	4.6		5.092		89.4	77.6	140			

Sample ID	1209A69-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	3935	RunNo:	5797					
Prep Date:	9/26/2012	Analysis Date:	9/27/2012	SeqNo:	166860	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	47	10	51.07	0	92.7	57.2	146	8.61	24.5	
Surr: DNOP	4.5		5.107		88.9	77.6	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B53

03-Oct-12

Client: Animas Environmental Services

Project: CoP Tocito #1

Sample ID: MB-3881	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: 3881	RunNo: 5824								
Prep Date: 9/22/2012	Analysis Date: 9/27/2012	SeqNo: 167530	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	990		1000		99.3	84	116			

Sample ID: LCS-3881	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: 3881	RunNo: 5824								
Prep Date: 9/22/2012	Analysis Date: 9/27/2012	SeqNo: 167531	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	104	74	117			
Surr: BFB	1000		1000		104	84	116			

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 |
| P Sample pH greater than 2 | R RPD outside accepted recovery limits |

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B53
 03-Oct-12

Client: Animas Environmental Services
Project: CoP Tocito #1

Sample ID MB-3881	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 3881		RunNo: 5783							
Prep Date: 9/22/2012	Analysis Date: 9/26/2012		SeqNo: 166796				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		99.7	80	120			

Sample ID LCS-3881	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 3881		RunNo: 5783							
Prep Date: 9/22/2012	Analysis Date: 9/26/2012		SeqNo: 166797				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.3	76.3	117			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	77	116			
Xylenes, Total	3.1	0.10	3.000	0	102	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID 1209929-003AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BatchQC	Batch ID: 3881		RunNo: 5783							
Prep Date: 9/22/2012	Analysis Date: 9/26/2012		SeqNo: 166805				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.048	0.9606	0	91.4	67.2	113			
Toluene	0.91	0.048	0.9606	0	94.8	62.1	116			
Ethylbenzene	0.92	0.048	0.9606	0.004087	95.5	67.9	127			
Xylenes, Total	2.8	0.096	2.882	0	97.9	60.6	134			
Surr: 4-Bromofluorobenzene	0.98		0.9606		102	80	120			

Sample ID 1209929-003AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BatchQC	Batch ID: 3881		RunNo: 5783							
Prep Date: 9/22/2012	Analysis Date: 9/26/2012		SeqNo: 166844				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.048	0.9615	0	93.5	67.2	113	2.34	14.3	
Toluene	0.93	0.048	0.9615	0	96.4	62.1	116	1.73	15.9	
Ethylbenzene	0.94	0.048	0.9615	0.004087	97.3	67.9	127	1.95	14.4	
Xylenes, Total	2.8	0.096	2.885	0	97.8	60.6	134	0.0126	12.6	
Surr: 4-Bromofluorobenzene	0.99		0.9615		103	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B53

03-Oct-12

Client: Animas Environmental Services

Project: CoP Tocito #1

Sample ID	mb-3881	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	3881	RunNo:	5909					
Prep Date:	9/22/2012	Analysis Date:	10/1/2012	SeqNo:	170206	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.3	70	130			
Surr: 4-Bromofluorobenzene	0.38		0.5000		76.7	70	130			
Surr: Dibromofluoromethane	0.41		0.5000		81.2	70	130			
Surr: Toluene-d8	0.36		0.5000		72.6	70	130			

Sample ID	LCS-3881	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	3881	RunNo:	5909					
Prep Date:	9/22/2012	Analysis Date:	10/1/2012	SeqNo:	170207	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.6	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.37		0.5000		73.2	70	130			

Sample ID	1209921-001ams	SampType:	MS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	3881	RunNo:	5909					
Prep Date:	9/22/2012	Analysis Date:	10/1/2012	SeqNo:	170211	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.39		0.4845		80.5	70	130			
Surr: 4-Bromofluorobenzene	0.39		0.4845		81.2	70	130			
Surr: Dibromofluoromethane	0.50		0.4845		102	70	130			
Surr: Toluene-d8	0.34		0.4845		69.9	70	130			S

Sample ID	1209921-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	3881	RunNo:	5909					
Prep Date:	9/22/2012	Analysis Date:	10/1/2012	SeqNo:	170212	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.41		0.4826		85.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.39		0.4826		81.1	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4826		105	70	130	0	0	
Surr: Toluene-d8	0.35		0.4826		71.5	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B53

03-Oct-12

Client: Animas Environmental Services

Project: CoP Tocito #1

Sample ID	MB-4043	SampType:	MBLK	TestCode:	MERCURY, TCLP					
Client ID:	PBW	Batch ID:	4043	RunNo:	5918					
Prep Date:	10/2/2012	Analysis Date:	10/2/2012	SeqNo:	170457	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	LCS-4043	SampType:	LCS	TestCode:	MERCURY, TCLP					
Client ID:	LCSW	Batch ID:	4043	RunNo:	5918					
Prep Date:	10/2/2012	Analysis Date:	10/2/2012	SeqNo:	170458	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	101	80	120			

Sample ID	1209B53-002AMS	SampType:	MS	TestCode:	MERCURY, TCLP					
Client ID:	SC-2	Batch ID:	4043	RunNo:	5918					
Prep Date:	10/2/2012	Analysis Date:	10/2/2012	SeqNo:	170466	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	93.7	75	125			

Sample ID	1209B53-002AMSD	SampType:	MSD	TestCode:	MERCURY, TCLP					
Client ID:	SC-2	Batch ID:	4043	RunNo:	5918					
Prep Date:	10/2/2012	Analysis Date:	10/2/2012	SeqNo:	170469	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	93.9	75	125	0	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B53

03-Oct-12

Client: Animas Environmental Services

Project: CoP Tocito #1

Sample ID	MB-4017	SampType:	MBLK	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	PBW	Batch ID:	4017	RunNo:	5897					
Prep Date:	10/1/2012	Analysis Date:	10/2/2012	SeqNo:	169955	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0								
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Silver	ND	5.0								

Sample ID	LCS-4017	SampType:	LCS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	LCSW	Batch ID:	4017	RunNo:	5897					
Prep Date:	10/1/2012	Analysis Date:	10/2/2012	SeqNo:	169956	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0	0.5000	0	113	80	120			
Barium	ND	100	0.5000	0	96.9	80	120			
Cadmium	ND	1.0	0.5000	0	105	80	120			
Chromium	ND	5.0	0.5000	0	98.8	80	120			
Lead	ND	5.0	0.5000	0	98.3	80	120			
Silver	ND	5.0	0.1000	0	104	80	120			

Sample ID	1209221-001BMS	SampType:	MS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	4017	RunNo:	5897					
Prep Date:	10/1/2012	Analysis Date:	10/2/2012	SeqNo:	169985	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	ND	5.0	0.5000	0.02317	97.6	75	125			
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Sample ID	1209221-001BMSD	SampType:	MSD	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	4017	RunNo:	5897					
Prep Date:	10/1/2012	Analysis Date:	10/2/2012	SeqNo:	169986	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	ND	5.0	0.5000	0.02317	95.8	75	125	0	20	
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Sample ID	LCS-4017	SampType:	LCS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	LCSW	Batch ID:	4017	RunNo:	5897					
Prep Date:	10/1/2012	Analysis Date:	10/2/2012	SeqNo:	169987	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Selenium	ND	1.0	0.5000	0	133	80	120			S
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Qualifiers:

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



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1209B53
 Received by/date: LM 09/26/12
 Logged By: Michelle Garcia 9/26/2012 10:00:00 AM *Michele Garcia*
 Completed By: Michelle Garcia 9/26/2012 10:24:35 AM *Michele Garcia*
 Reviewed By: *[Signature]* 09/26/12

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° 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 *09/26*

Person Notified: Heath Woods Date: 09/26/12
 By Whom: Michelle Garcia Via: eMail Phone Fax In Person
 Regarding: Analysis Request
 Client Instructions: Add RCI to -000.

18. Additional remarks:

19. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

