District 1
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

* Attach Additional Sheets If Necessary

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 Crystal Tafoya					
Address 3401 East 30 th St, Farmington, NM	Telephone No.(505) 326-9837					
Facility Name: Moore C 2E	Facility Type: Gas Well					
Surface Owner BLM Mineral Owner	BLM (SF-078147)	API No.30-045-24651				
LOCATIO	N OF RELEASE					
Unit Letter Section Township Range Feet from the North	ast/West Line County					
N 26 32N 12W 1100	South 1550	West San Juan				
Latitude <u>36.95250</u>	Latitude <u>36.952564</u> Longitude <u>108.06786</u>					
	OF RELEASE					
Type of Release Source of Release Below Grade Tank	Volume of Release Unknow Date and Hour of Occurrence	None Volume Recovered None Date and Hour of Discovery				
	Unknown	September 26, 2012				
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	576/36 55% \$757 \$7 5767 9 4 479				
By Whom?	Date and Hour	RCVDER 72:13 UL CUS. 717.				
Was a Watercourse Reached?	If YES, Volume Impacting the	Watercourse. DIST. 3				
☐ Yes ⊠ No		VIJI. U				
If a Watercourse was Impacted, Describe Fully.*						
N/A						
Describe Cause of Problem and Remedial Action Taken.*						
Below Grade Tank Re-set Activities						
Describe Area Affected and Cleanup Action Taken.*		·				
The below grade tank for the subject well was removed for a re-set a	nd historic contamination was di	scovered. An area excavated was 54' x 36' x				
19' and 1368 cubic yards of soil was transported to a third party land						
encountered on the base and permission to backfill due to depth to go	roundwater and presence of com	petent sandstone permission was granted to				
backfill from OCD (Brandon Powell) on 11/20/2012. Analytical resu	lts for TPH, BTEX and Chloride	s were below the regulatory standards set				
forth in the NMOCD Guidelines for Remediation of Leaks, Spills and attached for review.	I Release; therefore no further ac	ction is required. The final report is				
attached for review.						
I hereby certify that the information given above is true and complete to						
regulations all operators are required to report and/or file certain release is public health or the environment. The acceptance of a C-141 report by the	notifications and perform corrective	e actions for releases which may endanger				
should their operations have failed to adequately investigate and remedia						
or the environment. In addition, NMOCD acceptance of a C-141 report of						
federal, state, or local laws and/or regulations.						
	OIL CONSE	RVATION DIVISION ,				
Cystal of Tajoya		, \\\\ \ \\\\\				
Signature:	A 11 E 1					
	Approved by Environmental Spec	Talist: A TOWN J. DOWN				
Printed Name: Crystal Tafoya		V				
Title: Field Environmental Specialist	Approval Date: 2/2. 7/201	Expiration Date:				
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached				
Date: 2/19/2013 Phone: (505) 326-9837						

nJR 13058429391

January 30, 2013

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



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

RE: Initial Release Assessment and Final Excavation Report

Moore C #2E

San Juan County, New Mexico

Dear Ms. Tafoya:

On September 27, November 16, and November 20, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Moore C #2E, located in San Juan County, New Mexico. The historical release was discovered during a facility reset at the location. The initial release assessment was completed by AES on September 27, 2012. The final excavation was completed by CoP contractors while AES was on location November 16 and 20, 2012.

1.0 Site Information

1.1 Location

Location – SE¼ SW¼, Section 26, T32N, R12W, San Juan County, New Mexico Well Head Latitude/Longitude – N36.95253 and W108.06850, respectively Release Location Latitude/Longitude – N36.95230 and W108.06861, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, September 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Pit Remediation and Closure Report dated February 2000 for the Moore C #2E reported the depth to groundwater as greater than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for 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 further assessed the ranking using 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 bgs. An unnamed wash is located approximately 500 feet north of the location. Based on this information, the location was assessed a ranking score of 10 per the *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

1.3 Assessments

AES was initially contacted by Danny Rudder, CoP representative, on September 26, 2012, and the next day, Heather Woods of AES completed the release assessment field work. The assessment included collection and field screening of 21 soil samples from six test holes (TH-1 through TH-6). Based on the field screening and laboratory analytical results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On November 16, 2012, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. Based on the field screening and laboratory analytical results, AES recommended further excavation of the release area. On November 20, 2012, AES returned to the location to collect additional confirmation soil samples (SC-6 and SC-7) from the north wall and base of the expanded excavation. The final excavation was approximately 54 feet by 36 feet by 19 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 21 soil samples (TH-1 through TH-6) and 7 composite samples (SC-1 through SC-7) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two of the soil samples (TH-1 and TH-5) collected during the initial assessment and seven composite soil samples (SC-1 through SC-7) collected during the excavation were submitted for confirmation laboratory analysis.

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 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. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

Soil samples SC-1, SC-3, SC-4, and SC-6 were laboratory analyzed for BTEX only per USEPA 8021B.

2.3 Field Screening and Laboratory Analytical Results

On September 27, 2012, initial assessment field screening readings for VOCs via OVM ranged from 5.3 ppm in TH-6 up to 4,743 ppm in TH-1. Field TPH concentrations ranged from 36.5 mg/kg in TH-4 to greater than 5,000 mg/kg in TH-1.

On November 16 and 20, 2012, final excavation field screening results for VOCs via OVM ranged from 405 ppm in SC-6 to greater than 10,000 ppm in SC-2, SC-3, SC-5, and SC-7. Field TPH concentrations ranged from 25.1 mg/kg in SC-6 to 4,350 mg/kg in SC-7. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results Moore C #2E Release Assessment and Final Excavation September and November 2012

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
	NMOCD A	ction Level*	100	1,000
	_	5	4,410	848
		7	4,581	>5,000
TH-1	9/27/12	10	4,743	1,530
		14.5	4,208	2,220
		17	2,800	88.4
TU 2	0/27/12	8.5	7.1	67.5
TH-2	9/27/12 -	12	12.1	73.9
•		0.5	229	236
TH-3	9/27/12	5.5	872	892
	-	9	4,030	3,240
		3	8.8	NA
	-	7	9.4	NA
TH-4	9/27/12	9	254	136
	-	12	83.7	NA
	•	13.5	8.4	36.5
		6	9.4	NA
TH-5	9/27/12	7	10.7	NA
		9	634	341
		9	10.4	NA
TH-6	9/27/12	12	5.3	NA
		14	5.7	71.3
SC-1	11/16/12	1 to 15	636	49.0
SC-2	11/16/12	15	>10,000	>2,500

Commis ID	Date	Sample Depth	VOCs via OVM	Field TPH
Sample ID	Sampled NMOCD A	(ft bgs)	(ppm) 100	(mg/kg) 1,000
SC-3	11/16/12	1 to 15	>10,000	46.7
SC-4	11/16/12	1 to 15	5,620	41.9
SC-5	11/16/12	1 to 15	>10,000	>2,500
SC-6	11/20/12	1 to 19	405	25.1
SC-7	11/20/12	19	>10,000	4,350

NA - Not Analyzed

Laboratory analyses for TH-1 and TH-5 were used to confirm field screening results from the initial assessment. Benzene concentrations in TH-1 and TH-5 were reported at less than 0.50 mg/kg and less than 0.25 mg/kg, respectively. Total BTEX concentrations ranged from less than 1.25 mg/kg (TH-5) to 6.9 mg/kg (TH-1). TPH concentrations (as GRO/DRO) were reported at 1,200 mg/kg (TH-1) and 212 mg/kg (TH-5).

Laboratory analytical results of SC-1 through SC-7 were used to confirm field screening results during excavation activities. Benzene concentrations ranged from less than 0.050 mg/kg up to 0.77 mg/kg in SC-2. Total BTEX concentrations ranged from less than 0.25 mg/kg up to 215 mg/kg in SC-2. TPH concentrations as GRO/DRO were reported in SC-2 (4,610 mg/kg), SC-5 (2,330 mg/kg), and SC-7 (3,200 mg/kg). Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, BTEX and TPH Moore C #2E Release Assessment and Final Excavation September and November 2012

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMO	CD Action Le	vel*	10	50	1,0	000
TH-1	9/27/12	14.5	<0.50	6.9	260	940
TH-5	9/27/12	9	<0.25	<1.25	42	170
SC-1	11/16/12	1 to 15	<0.050	<0.25	NA	NA
SC-2	11/16/12	15	0.77	215	3,700	910

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

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMO	NMOCD Action Level*			50	1,0	000
SC-3	11/16/12	1 to 15	<0.050	<0.25	NA	NA
SC-4	11/16/12	1 to 15	<0.050	<0.25	NA	NA
SC-5	11/16/12	1 to 15	<1.0	60	1,500	830
SC-6	11/20/12	1 to 19	<0.050	<0.25	NA	NA
SC-7	11/20/12	19	<2.4	159	1,800	1,400

^{*}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 27, 2012, AES conducted an initial assessment associated with a historical release discovered during a facility reset at the Moore C #2E. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking of 10. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in TH-1, TH-3, TH-4, and TH-5, with the highest VOC concentration reported in TH-1 with 4,743 ppm. Field screening TPH results above the NMOCD action level of 1,000 mg/kg were reported in TH-1 and TH-3. The highest TPH concentration was reported in TH-1 with a concentration greater than 5,000 mg/kg. Laboratory analytical results from September 27, 2012, reported benzene and total BTEX concentrations below the applicable NMOCD action levels in both TH-1 and TH-5. TPH concentrations as GRO/DRO in TH-5 exceeded the NMOCD action level with 1,200 mg/kg.

On November 16 and 20, 2012, final assessment of the excavation area was completed. Field screening results of the excavation showed that VOC concentrations exceeded the NMOCD action level of 100 ppm in the final four walls and base of the excavation. Field TPH concentrations were reported below the NMOCD action level of 1,000 mg/kg in each of the final four walls of the excavation, and field TPH concentrations at the base of the excavation were reported above the NMOCD action level with greater than 2,500 mg/kg in SC-2 and 4,350 mg/kg in SC-7. Laboratory analytical results from November 16 and 20, 2012 reported benzene and total BTEX concentrations below applicable NMOCD action levels in each of the sidewalls; however, the base sample (SC-7) exceeded applicable NMOCD action levels for total BTEX (159 mg/kg) and TPH as GRO/DRO (3,200 mg/kg).

Based on the final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the Moore C #2E, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the final sidewalls of the excavation. However, the base of the excavation exceeded applicable NMOCD action levels for total BTEX and TPH. Because of approximate depth to groundwater and the presence of competent sandstone at the site, Brandon Powell of NMOCD granted approval to CoP to backfill the excavation on November 20, 2012. No further work is recommended.

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 M. Woods Staff Geologist

Aleather M. Woods

Elizabeth McNally, PE

Elizabeth V MiNdly

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, September 2012

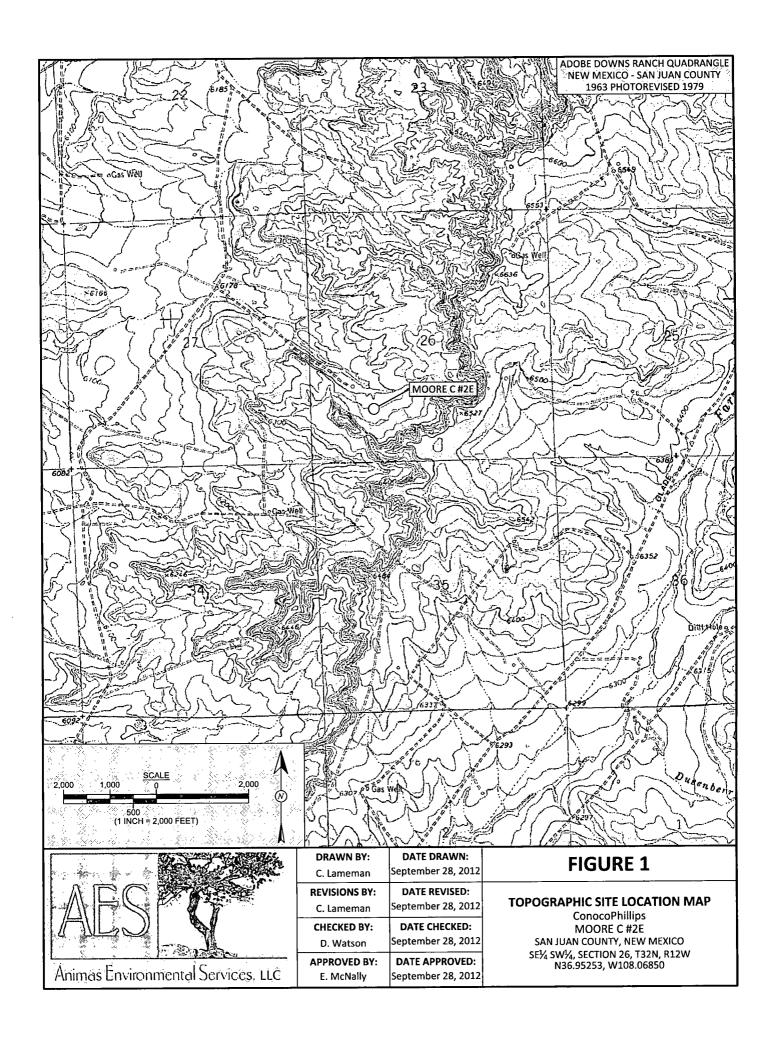
Figure 3. Initial Assessment Soil Sample Locations and Results, September 2012

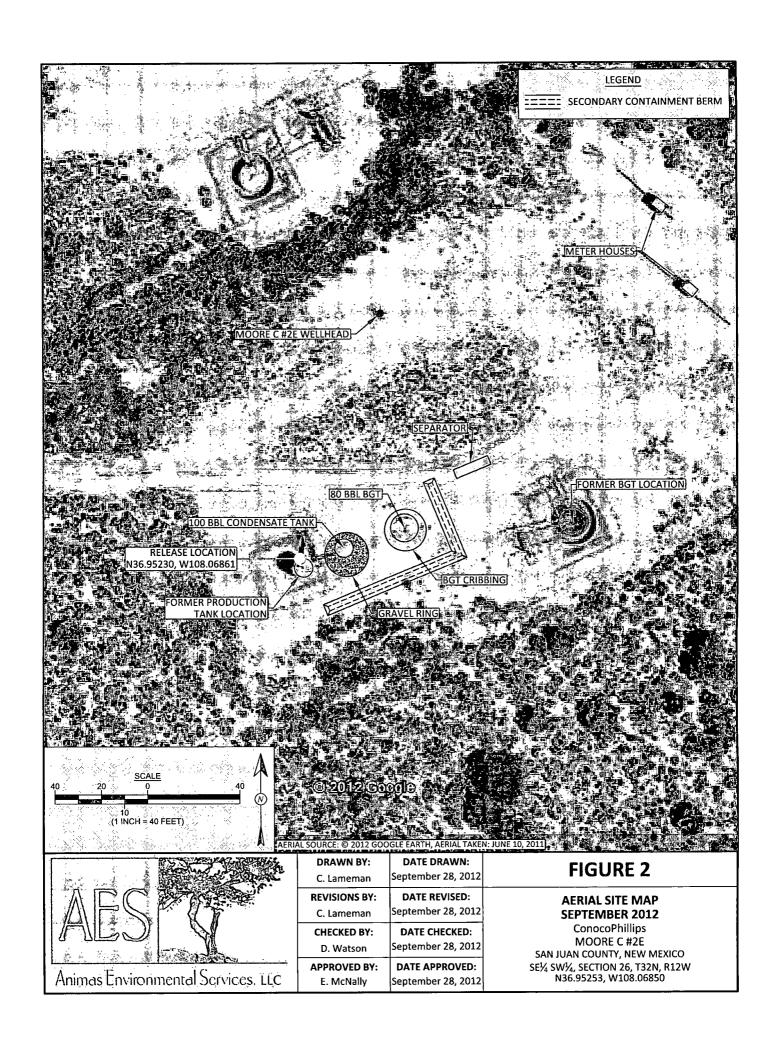
Figure 4. Final Excavation Soil Sample Locations and Results, November 2012

AES Field Screening Reports 092712, 111612, and 112012

Hall Laboratory Analytical Reports 1209D10, 1211726, and 1211880

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Moore C #2E\Moore C #2E Release and Final Excavation Report 013013.docx





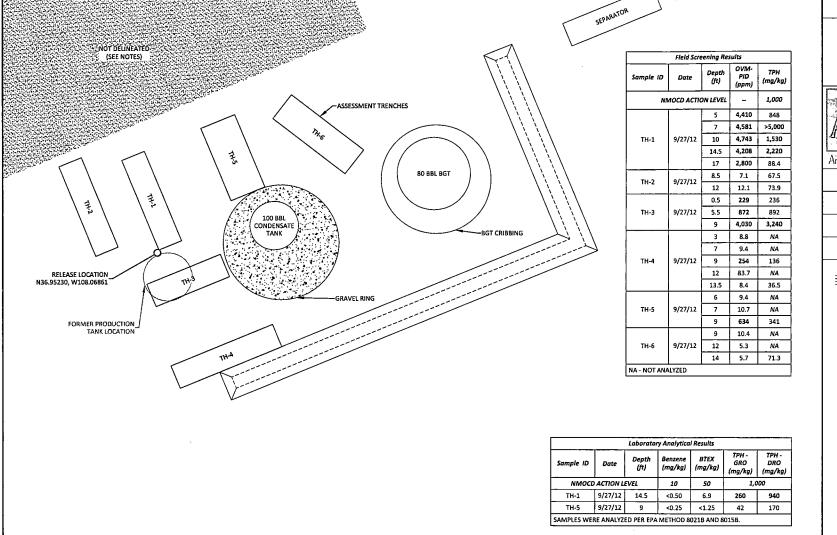


FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS SEPTEMBER 2012

ConocoPhillips MOORE C #2E SAN JUAN COUNTY, NEW MEXICO SE½ SW½, SECTION 26, T32N, R12W N36.95253, W108.06850

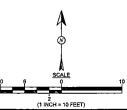


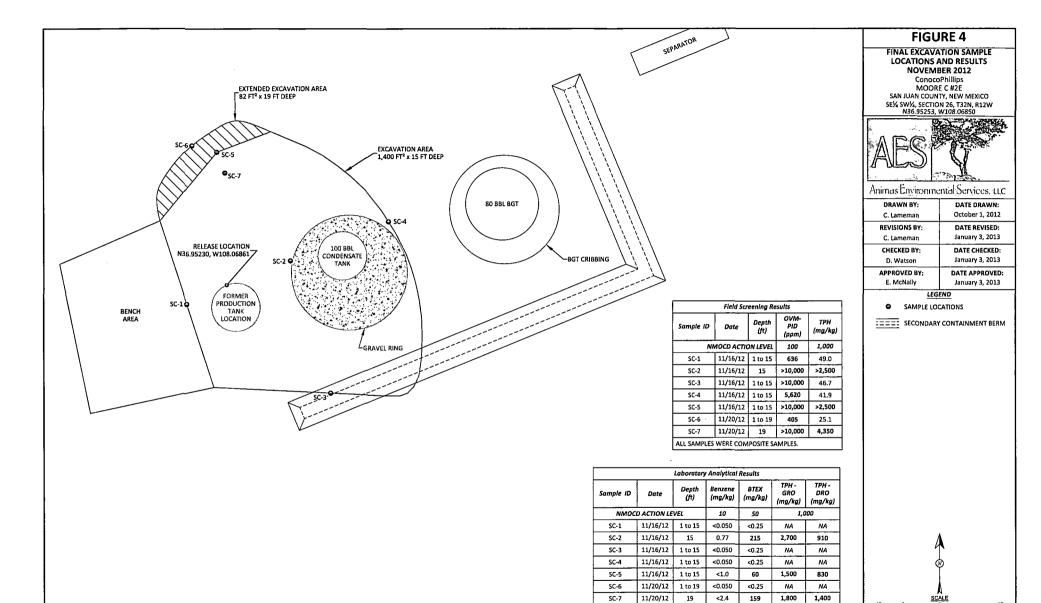
Animas Environmental Services, LLC

	,			
DRAWN BY:	DATE DRAWN:			
C. Lameman	October 1, 2012			
REVISIONS BY:	DATE REVISED:			
C. Lameman	November 16, 2012			
CHECKED BY:	DATE CHECKED:			
D. Watson	November 16, 2012			
APPROVED BY:	DATE APPROVED:			
E. McNally	November 16, 2012			

LEGEND

SECONDARY CONTAINMENT BERM





SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015B.

(1 INCH = 10 FEET)

AES Field Screening Report

AES

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: Moore C#2E

Date: 9/27/2012

Matrix: Soil

	TVIGUIX.							
Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1 @ 5'	9/27/2012	9:52	4,410	10:18	848	40.0	1	HMW
TH-1 @ 7'	9/27/2012	9:54	4,581	10:22	>5,000	40.0	1	HMW
TH-1 @ 10'	9/27/2012	9:57	4,743	10:26	1,530	40.0	1	HMW
TH-1 @ 14.5'	9/27/2012	10:30	4,208	10:56	2,220	100	1	HMW
TH-1 @ 17'	9/27/2012	10:40	2,800	10:59	88.4	40.0	1	HMW
TH-2 @ 8.5'	9/27/2012	10:46	7.1	13:02	67.5	20.0	1	HMW
TH-2 @ 12'	9/27/2012	11:47	12.1	13:05	73.9	20.0	1	HMW
TH-3 @ 0.5'	9/27/2012	10:55	229	13:07	236	40.0	1	HMW
TH-3 @ 5.5'	9/27/2012	11:00	872	13:10	892	40.0	1	HMW
TH-3 @ 9'	9/27/2012	13:42	4,030	14:07	3,240	40.0	1	HMW
TH-4 @ 3'	9/27/2012	11:09	8.8		Not A	nalyzed for T	PH	
TH-4 @ 7'	9/27/2012	11:14	9.4		Not A	nalyzed for T	РН	
TH-4 @ 9'	9/27/2012	11:21	254	13:40	136	20.0	1	HMW

Moore C #2E

Page 1

Report Finalized: 09/27/12

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-4 @ 12'	9/27/2012	11:32	83.7		Not A	nalyzed for T	PH	
TH-4 @ 13.5'	9/27/2012	11:40	8.4	13:13	36.5	20.0	1	HMW
TH-5 @ 6'	9/27/2012	11:50	9.4		Not A	nalyzed for T	PH	
TH-5 @ 7'	9/27/2012	11:53	10.7		Not A	nalyzed for T	РН	
TH-5 @ 9'	9/27/2012	11:56	634	13:15	341	40.0	1	HMW
TH-6 @ 9'	9/27/2012	12:03	10.4	Not Analyzed for TPH				
TH-6 @ 12'	9/27/2012	12:06	5.3	Not Analyzed for TPH				
TH-6 @ 14'	9/27/2012	12:10	5.7	13:18	71.3	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL

Practical Quantitation Limit

Analyst:

Heather M. Woods

ND

Not Detected at the Reporting Limit

DF

Dilution Factor

NA

Not Analyzed

AES Field Screening Report

Animas Environmental Services, LLC

www.animasenvironmental.com

Heather M. Woods

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

> Durango, Colorado 970-403-3274

Client: ConocoPhillips

Project Location: Moore C #2E

Date: 11/16/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	11/16/2012	8:43	West Wall	636	9:50	49.0	20.0	1	HMW
SC-2	11/16/2012	8:46	Base	>10,000	9:52	>2,500	20.0	1	HMW
SC-3	11/16/2012	8:50	South Wall	>10,000	9:57	46.7	20.0	1	HMW
SC-4	11/16/2012	8:53	East Wall	5,620	10:00	41.9	20.0	1	HMW
SC-5	11/16/2012	9:03	North Wall	>10,000	10:03	>2,500	20.0	1	HMW

Analyst:

Total Petroleum Hydrocarbons - USEPA 418.1

PQL

Practical Quantitation Limit

ND

Not Detected at the Reporting Limit

DF

Dilution Factor

NA

Not Analyzed

AES Field Screening Report

Client: ConocoPhillips

Project Location: Moore C #2E

Date: 11/20/2012

Matrix: Soil



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	11/20/2012	9:58	North Wall	405	10:22	25.1	20.0	1	HMW
SC-7	11/20/2012	10:00	Base	>10,000	10:19	4,350	40.0	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: Heather M. Woods



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

OrderNo.: 1209D10

October 01, 2012

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

FAX

RE: COP Moore C #2E

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/28/2012 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1209D10

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/1/2012

CLIENT: Animas Environmental Services

1209D10-001

Client Sample ID: TH-1@14.5'

Project: COP Moore C #2E

Lab ID:

Collection Date: 9/27/2012 10:30:00 AM

Matrix: MEOH (SOIL) Received Date: 9/28/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	940	9.9		mg/Kg	1	9/28/2012 11:00:44 AM
Surr: DNOP	113	77.6-140		%REC	1	9/28/2012 11:00:44 AM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	260	100		mg/Kg	20	9/28/2012 2:54:44 PM
Surr: BFB	345	84-116	s	%REC	20	9/28/2012 2:54:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		mg/Kg	20	9/28/2012 2:54:44 PM
Toluene	ND	1.0		mg/Kg	20	9/28/2012 2:54:44 PM
Ethylbenzene	ND	1.0		mg/Kg	20	9/28/2012 2:54:44 PM
Xylenes, Total	6.9	2.0		mg/Kg	20	9/28/2012 2:54:44 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	20	9/28/2012 2:54:44 PM

Ona	lifi	ere

Value exceeds Maximum Contaminant Level.

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
- Spike Recovery outside accepted recovery limits 1 of 6

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

Lab Order 1209D10

Hall Environmental Analysis Laboratory, Inc. Date Reported: 10/1/2012

CLIENT: Animas Environmental Services

Client Sample ID: TH-5@9'

Project:

COP Moore C #2E

Collection Date: 9/27/2012 11:56:00 AM

Lab ID: 1209D10-002 Matrix: MEOH (SOIL)

Received Date: 9/28/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	170	10		mg/Kg	1	9/28/2012 11:22:25 AM
Surr: DNOP	111	77.6-140		%REC	1	9/28/2012 11:22:25 AM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	42	25		mg/Kg	5	9/28/2012 2:26:00 PM
Surr: BFB	247	84-116	s	%REC	5	9/28/2012 2:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	5	9/28/2012 2:26:00 PM
Toluene	ND	0.25		mg/Kg	5	9/28/2012 2:26:00 PM
Ethylbenzene	ND	0.25		mg/Kg	5	9/28/2012 2:26:00 PM
Xylenes, Total	ND	0.50		mg/Kg	5	9/28/2012 2:26:00 PM
Surr: 4-Bromofluorobenzene	104	80-120		%REC	5	9/28/2012 2:26:00 PM

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1209D10

01-Oct-12

Client:

Animas Environmental Services

Project: (COP Moore C #2E								
Sample ID MB-3974	SampType	: MBLK	Tes	tCode: EF	A Method	8015B: Dies	el Range (Organics	
Client ID: PBS	Batch ID	: 3974	F	RunNo: 5 8	316				
Prep Date: 9/27/20	12 Analysis Date	9/28/2012	S	SeqNo: 16	7266	Units: mg/K	(g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D Surr: DNOP	RO) ND 10	10.00		101	77.6	140			
Sample ID LCS-397	4 SampType	e: LCS	Tes	tCode: EF	A Method	8015B: Diese	el Range (Organics	
Client ID: LCSS	Batch ID	: 3974	F	RunNo: 5 8	316				
Prep Date: 9/27/20	12 Analysis Date	9/28/2012	8	SeqNo: 16	3 7486	Units: mg/k	ζg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	,	10 50.00	•	83.3	52.6	130			
Surr: DNOP	4.9	5.000 		97.1	77.6	140			
Sample ID 1209B93	-001AMS SampType	e: MS	Tes	tCode: EF	PA Method	8015B: Dies	el Range (Organics	
Client ID: BatchQ0	Batch ID	3974	F	RunNo: 5 8	316				
Prep Date: 9/27/20	12 Analysis Date	9/28/2012	8	SeqNo: 16	7922	Units: mg/K	(g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	,	9.8 49.16		-40.2	57.2	146			S
Surr: DNOP	4.8	4.916		98.6	77.6 ———	140		4.7	
Sample ID 1209B93	-001AMSD SampType	e: MSD	Tes	tCode: EF	A Method	8015B: Dies	el Range (Organics	
Client ID: BatchQ0	Batch ID	: 3974	F	RunNo: 5 8	316				
Prep Date: 9/27/20	12 Analysis Date	9/28/2012	9	SeqNo: 16	8423	Units: mg/K	ζg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	•	9.6 48.22		-22.3	57.2	146	0.958	24.5	s
Surr: DNOP	4.9	4.822		101	77.6	140	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D10

01-Oct-12

Client:

Animas Environmental Services

Project:	COP Mo	ore C #2E									
Sample ID	MB-3952	SampTyp	e: MI	BLK	Tes	tCode: E	PA Method	8015B: Gas	oline Rang	je	
Client ID:	PBS	Batch II	D: 39	52	F	RunNo: 5	841				
Prep Date:	9/26/2012	Analysis Date	e: 9 ,	/28/2012	5	SeqNo: 1	68202	Units: mg/l	Kg		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	ge Organics (GRO)	ND	5.0		***						
Surr: BFB		990		1000		98.9	84 	116			
Sample ID	LCS-3952	SampTyp	e: LC	cs	Tes	tCode: E	PA Method	8015B: Gas	oline Rang	je	
Client ID:	LCSS	Batch II	D: 39	52	F	RunNo: 5	841				
Prep Date:	9/26/2012	Analysis Date	e: 9 ,	/28/2012	S	SeqNo: 1	68203	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	ge Organics (GRO)	26	5.0	25.00	0	106	74	117			
Sum: BFB		1000		1000		102	84	116			
Sample ID	MB-3940	SampTyp	e: MI	BLK	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	je	
Client ID:	PBS	Batch II	D: 39	40	F	lunNo: 5	841				
Prep Date:	9/26/2012	Analysis Date	e: 9 /	/29/2012	S	SeqNo: 1	68217	Units: %RE	C	•	
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		980		1000		98.4	84	116			
Sample ID	LCS-3940	SampTyp	e: LC	s	Tes	Code: E	PA Method	8015B: Gase	oline Rang	e	
Client ID:	LCSS	Batch II): 39	40	F	tunNo: 5	841				
Prep Date:	9/26/2012	Analysis Date	e: 9 /	/29/2012	S	eqNo: 1	68218	Units: %RE	C		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	<u>.</u>	1000		1000		105	84	116	·		
Sample ID	1209A69-002AMS	SampTyp	e: M \$	s	Tes	Code: E	PA Method	8015B: Gase	oline Rang	e	
Client ID:	BatchQC	Batch II	D: 39	40	F	lunNo: 5	856				
Prep Date:	9/26/2012	Analysis Date	e: 9 /	/29/2012	S	eqNo: 1	68360	Units: %RE	С		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		964.3		110	84	116			
Sample ID	1209A69-002AMS	D SampTyp	e: MS	SD	Tes	Code: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	BatchQC	Batch II	D: 39	40	F	tunNo: 5	856				
Prep Date:	9/26/2012	Analysis Date	e: 9 /	/29/2012	S	eqNo: 1	68361	Units: %RE	C		
Analyte		Result i	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		968.1		107	84	116	0	0	

Qualifiers:

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

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D10

01-Oct-12

Client:

Animas Environmental Services

Project:	СОР Мос	ore C #2E									
Sample ID	MB-3952	SampT	/pe: M E	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	ID: 39	52	F	RunNo: 5	841				
Prep Date:	9/26/2012	Analysis Da	ate: 9/	28/2012	5	SeqNo: 1	68229	Units: mg/h	ζg		
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-Brom	ofluorobenzene	0.99		1.000		99.0	80	120			
Sample ID	LCS-3952	SampT	pe: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	ID: 39	52	F	RunNo: 5	841				
Prep Date:	9/26/2012	Analysis Da	ate: 9/	28/2012	\$	SeqNo: 1	68230	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.050	1.000	0	93.8	76.3	117			
Toluene		0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene		0.97	0.050	1.000	0	96.6	77	116			
Xylenes, Total		3.0	0.10	3.000	0	98.6	76.7	117			
Surr: 4-Brom	ofluorobenzene	1.1		1.000		105	80	120			
Sample ID	MB-3940	SampT	pe: Mi	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	ID: 39	40	F	RunNo: 5	841				
Prep Date:	9/26/2012	Analysis Da	ate: 9/	29/2012	\$	SeqNo: 1	68236	Units: %RE	C		
Analyte_		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.98		1.000		98.1	80	120			
Sample ID	LCS-3940	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	ID: 39	40	F	RunNo: 5	841				
Prep Date:	9/26/2012	Analysis Da	ate: 9/	29/2012	5	SeqNo: 1	68237	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1,0		1.000		104	80	120			
Sample ID	1209A90-001AMS	SampT	pe: MS	5	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batch	ID: 39	40	F	RunNo: 5	856				
Prep Date:	9/26/2012	Analysis Da	ate: 9/	29/2012	\$	SeqNo: 1	68389	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

1.9

1.896

- Value above quantitation range E
- Analyte detected below quantitation limits
- Sample pH greater than 2

Surr: 4-Bromofluorobenzene

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

102

80

120

RPD outside accepted recovery limits

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209D10

01-Oct-12

Client:

Animas Environmental Services

Project:

COP Moore C #2E

Sample ID 1209A90-001AMSD

SampType: MSD

PQL

TestCode: EPA Method 8021B: Volatiles

Client ID: **BatchQC** Batch ID: 3940

RunNo: 5856

Prep Date: 9/26/2012

Analysis Date: 9/29/2012

SegNo: 168390

Units: %REC

SPK value SPK Ref Val

%REC

LowLimit

HighLimit

RPDLimit

Qual

Surr: 4-Bromofluorobenzene

1.9

1.901

101

80

120

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NI Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Clien	nt Name:	Animas En	virgnmental	/	∫Woi	rk Order I	Numi	ber: 1.	209D1	0		
Rece	eived by/date	:	<u> </u>	09/24	1/12	·						
Logg	jed By:	Lindsay Ma	angin	9/28/2012 10:00:0	MA 00			05	4Hgo 4Hgo			
Com	pleted By:	Lindsay Ma	angin	9/28/2012 10:20:4	з АМ			O L	Hlypo			
Revi	ewed By:	A	-09/28/1	۷								
Chai	in of Cust	ody										
1. 1	Were seals in	ntact?				Yes 🛚	No		Not F	Present 🗹		
2.	Is Chain of C	custody comp	olete?			Yes 🗹	No		Not F	Present		
3. 1	How was the	sample deliv	vered?			<u>Courier</u>						
Log	<u>In</u>											
4.	Coolers are	present? (see	e 19. for cooler sp	ecific information)		Yes 🗹	No			na 🗆		
5 . '	Was an atter	mpt made to	cool the samples	?		Yes 🗹	No			NA 🗆		
6. '	Were all sam	nples receive	d at a temperatur	e of >0° C to 6.0°C		Yes 🗹	No			na 🗆		
7. :	Sample(s) in	proper conta	ainer(s)?			Yes 🗹	No					
8.	Sufficient sar	mple volume	for indicated test	(s)?		Yes 🗹	No					
9. 4	Are samples	(except VOA	and ONG) prope	rfy preserved?		Yes 🗹	No					
		ative added t				Yes 🗌	No	\blacksquare		NA 🗆		
11 '	VOA vials ha	ve zero head	Ispace?			Yes 🗌	No		No VO	A Vials ☑		
			ers received brok	en?		Yes 🗆	No	\checkmark				
13.	Does paperw	ork match bo	ottle labels?			Yes 🗹	No			# of preserved bottles checked		
			nain of custody)	f Cuctody?		Yes 🗹	No	П	1	for pH: /<	2 or >12	2 unless noted)
•		•	ntified on Chain o vere requested?	i Gustody r			No	$\overline{\Box}$		Adjusted?	2 01 - 12	i umess noted)
		=	le to be met?			Yes 🗹				-		
		_	authorization.)							Checked by	y:	
Spec	ial Handi	ing (if app	licable)						<u></u>			
17. \	Was client no	otified of all d	liscrepancies with	this order?	,	Yes 🗌	No			NA 🗹		
	Person	Notified:		Da	te:							
	By Who	om: j		Via	:	eMail [] Ph	one [] Fax	☐ In Person		
ļ	Regardi	ing:			********					······································		
j	Client Ir	nstructions:										
18.	Additional rer	marks:										
46	01											
19. 9	Cooler Infor		Condition S	eal Intact Seal No	l Sea	al Date	1 :	Signec	l Bv	F		
	1	2.5	Good Yes]		

C	hain-	-of-Cι	stody Record	Turn-Around	Time:] #		1	=.	-		_	REN	ft s		ni n	.a ==	RIT	. A 1	
Client:	tnima.	Fuir	conmental Services	□ Standard	⊠ Rush	Some Day		724											NT VTC		
	MI I I I I I I I I I I I I I I I I I I	<u></u>	omerand source	Project Name	9:	0	 		1			v.hai									•
Mailing	Address	: 1071	E. Comanche	Cop Mo	ove C#2	F		49	01 H	lawki								109			
Far		Ψ <u>-</u> γ	4 87401	Project #:	OVECHE		1)5-34				-			4107				
		-564-		1			a de	ا الدر قابق													
email o				Project Mana	iger:		_	<u>(</u>	015B (Gas/Diesel)					(۵)							Τ
QA/QC I	Package:]			021	s or	Dies					,4,SC	B's						
tx Stan	dard		☐ Level 4 (Full Validation)	D. Watso	on		8)	9	3as/					PO,	2 PC		l	Ì			
Accredi							劉し	[문	() () ()	-	÷.	₽		NO2	808						E
□ NEL		☐ Othe	<u> </u>	On least syn	XYesirii	January .	+	 	015	418	504	PA	<u>s</u>	Q,	/ Se		(A)				ō
□ EDD	(Type)_	1	<u> </u>	Sample Jen	peraluies 4 I	106 and 15 a		1 <u>1</u> 2,	ξg	Ыб	ğ	9	leta	C,1	icid	8	\ <u>-</u>				S (
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	AEAENio	BTEX +-WEBE + 470008 (8021)	X + W	TPH Method 8015B (0	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
						IZOSIMO:	BT	BT	臣	ם	G	831	22	Ani	808	826	827				¥i
7/27/12	1030	Soil	TH-1@14.5'	NOT KIF	MOHALA	-001	X		X												
	l156		TH-509'	Mroff K.A.	MOH	-002	×		X									\dashv			\prod
-							-				-		_				_	_	\dashv	-	+
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Date:	Time:	Relinquish		Received by:	,) .	Date Time	Ren	nark	s: 8;	II to		noc	o Ph	ıUi	دم	·					
Date:	1659 Time:	Fleii Relinquish	thu M. Woods ed by:	Received by:	uldeta	Date Time	1659 WO: 10337285 Work ordered by: Danny P Activity: 3110 Anea: 1			y Ru	dden										
1/37/12		samples sub	Titled to Hall Environmental may be subc	contracted to other as	ccredited laboratoric	09/23/12 1000 es. This serves as notice of thi	Super: Sheldon Montoya USU ID: BENALE is nossibility. Any sub-contracted data will be closely notated on the analytical rooms.				 -										



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

November 21, 2012

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

FAX

RE: CoP Moore C #2E

OrderNo.: 1211726

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/17/2012 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1211726

Date Reported: 11/21/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: CoP Moore C #2E

Collection Date: 11/16/2012 8:43:00 AM

Lab ID: 1211726-001

Matrix: MEOH (SOIL) Received Date: 11/17/2012 2:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES		-			Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	11/19/2012 11:47:10 AM
Toluene	ND	0.050	mg/Kg	1	11/19/2012 11:47:10 AM
Ethylbenzene	ND	0.050	mg/Kg	1	11/19/2012 11:47:10 AM
Xylenes, Total	ND	0.10	mg/Kg	1	11/19/2012 11:47:10 AM
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	11/19/2012 11:47:10 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

Spike Recovery outside accepted recovery limits 1 of 8

Lab Order 1211726

Date Reported: 11/21/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: CoP Moore C #2E

1211726-002

Lab ID:

Client Sample ID: SC-2

Collection Date: 11/16/2012 8:46:00 AM

Matrix: MEOH (SOIL) Received Date: 11/17/2012 2:00:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	910	20		mg/Kg	2	11/19/2012 9:12:40 AM
Surr: DNOP	99.7	77.6-140		%REC	2	11/19/2012 9:12:40 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	3700	100		mg/Kg	20	11/19/2012 1:13:26 PM
Surr: BFB	897	84-116	s	%REC	20	11/19/2012 1:13:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.77	0.50		mg/Kg	20	11/19/2012 1:13:26 PM
Toluene	14	1.0		mg/Kg	20	11/19/2012 1:13:26 PM
Ethylbenzene	20	1.0		mg/Kg	20	11/19/2012 1:13:26 PM
Xylenes, Total	180	10		mg/Kg	100	11/20/2012 2:09:24 AM
Surr: 4-Bromofluorobenzene	111	80-120		%REC	100	11/20/2012 2:09:24 AM

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

- Analyte detected in the associated Method Blank В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
 - Spike Recovery outside accepted recovery limits Page 2 of 8

Lab Order 1211726

Hall Environmental Analysis Laboratory, Inc. Date Reported: 11/21/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: CoP Moore C #2E

Collection Date: 11/16/2012 8:50:00 AM

Lab ID: 1211726-003 **Matrix:** MEOH (SOIL)

Received Date: 11/17/2012 2:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES		•			Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	11/19/2012 12:16:00 PM
Toluene	ND	0.050	mg/Kg	1	11/19/2012 12:16:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	11/19/2012 12:16:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	11/19/2012 12:16:00 PM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	11/19/2012 12:16:00 PM

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 Page 3 of 8

Lab Order 1211726

Date Reported: 11/21/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-4

CoP Moore C #2E Project:

Collection Date: 11/16/2012 8:53:00 AM

1211726-004 Received Date: 11/17/2012 2:00:00 PM Lab ID: Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES		· · · · · · · · · · · · · · · · · · ·	=		Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	11/19/2012 12:44:42 PM
Toluene	ND	0.050	mg/Kg	1	11/19/2012 12:44:42 PM
Ethylbenzene	ND	0.050	mg/Kg	1	11/19/2012 12:44:42 PM
Xylenes, Total	ND	0.10	mg/Kg	1	11/19/2012 12:44:42 PM
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	11/19/2012 12:44:42 PM

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

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

 Page 4 of 8

Lab Order 1211726

Date Reported: 11/21/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: CoP Moore C #2E Collection Date: 11/16/2012 9:03:00 AM

1211726-005 Lab ID:

Matrix: MEOH (SOIL) Received Date: 11/17/2012 2:00:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS			<u></u>		Analyst: JMP
Diesel Range Organics (DRO)	830	10		mg/Kg	1	11/19/2012 8:50:54 AM
Surr: DNOP	91.0	77.6-140		%REC	1	11/19/2012 8:50:54 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	1500	100		mg/Kg	20	11/20/2012 3:06:54 AM
Surr: BFB	232	84-116	S	%REC	20	11/20/2012 3:06:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		mg/Kg	20	11/20/2012 3:06:54 AM
Toluene	ND	1.0		mg/Kg	20	11/20/2012 3:06:54 AM
Ethylbenzene	7.7	1.0		mg/Kg	20	11/20/2012 3:06:54 AM
Xylenes, Total	52	2.0		mg/Kg	20	11/20/2012 3:06:54 AM
Surr: 4-Bromofluorobenzene	133	80-120	S	%REC	20	11/20/2012 3:06:54 AM

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- J Analyte detected below quantitation limits
- Sample pH greater than 2
- Reporting Detection Limit

- 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
- Spike Recovery outside accepted recovery limits Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

1211726

WO#:

21-Nov-12

Client: Animas Environmental Services

Project: CoP Moore C #2E

Sample ID MB-4873 TestCode: EPA Method 8015B: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 4873 RunNo: 6963 SeqNo: 201425 Prep Date: 11/18/2012 Analysis Date: 11/19/2012 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 8.1 10.00 81.4 77.6 140 Sample ID LCS-4873 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: LCSS Batch ID: 4873 RunNo: 6963 Prep Date: 11/18/2012 SeqNo: 201426 Analysis Date: 11/19/2012 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 39 10 50.00 0 77.9 47.4 122 Surr: DNOP 5.000 77.6 4.1 81.8 140

Sample ID 1211698-001AMS TestCode: EPA Method 8015B: Diesel Range Organics SampType: MS Client ID: **BatchQC** Batch ID: 4873 RunNo: 6963 Prep Date: 11/18/2012 Analysis Date: 11/19/2012 SeqNo: 201428 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 56 10 50.66 0 111 12.6 148 Surr: DNOP 5.066 80.6 77.6 140 4.1

Sample ID 1211698-001AMSD SampType: MSD TestCode: EPA Method 8015B: Diesel Range Organics Client ID: **BatchQC** Batch ID: 4873 RunNo: 6963 Prep Date: 11/18/2012 Analysis Date: 11/19/2012 SeqNo: 201429 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.35 Diesel Range Organics (DRO) 57 10 49.75 n 115 12.6 148 22.5 Surr: DNOP 4.975 77.6 77.6 3.9 140 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

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1211726

21-Nov-12

Client:

Animas Environmental Services

Project:

CoP Moore C #2E

Sample ID MB-4868 TestCode: EPA Method 8015B: Gasoline Range SampType: MBLK Client ID: PBS Batch ID: 4868 RunNo: 6976 SeqNo: 202787 Units: %REC Prep Date: 11/16/2012 Analysis Date: 11/19/2012 **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 950 1000 95.4 116 Sample ID LCS-4868 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS Batch ID: 4868 RunNo: 6976 Prep Date: 11/16/2012 Analysis Date: 11/19/2012 SeqNo: 202788 Units: %REC **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Surr: BFB 1000 1000 99.9 116

Sample ID 1211698-002AMS SampType: MS TestCode: EPA Method 8015B: Gasoline Range Batch ID: 4868 Client ID: BatchQC RunNo: 6976 Prep Date: 11/16/2012 Analysis Date: 11/19/2012 SeqNo: 202793 Units: %REC SPK value SPK Ref Val %RPD Analyte Result **PQL** %REC LowLimit HighLimit **RPDLimit** Qual Surr: BFB 1100 961.5 111

Sample ID 1211698-002AMSD SampType: MSD TestCode: EPA Method 8015B: Gasoline Range Client ID: BatchQC Batch ID: 4868 RunNo: 6976 Prep Date: 11/16/2012 Analysis Date: 11/19/2012 SeqNo: 202794 Units: %REC Result %REC %RPD Analyte POL SPK value SPK Ref Val LowLimit HighLimit **RPDLimit** Qual Surr: BFB 1100 981.4 110 84 116

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211726

21-Nov-12

Client:

Animas Environmental Services

PQL

0.9785

Result

1.0

Project: CoP N	Moore C #2E			
Sample ID MB-4868	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 4868	RunNo: 6976		
Prep Date: 11/16/2012	Analysis Date: 11/19/2012	SeqNo: 202807	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	1.0 1.000	100 80	120	-
Sample ID LCS-4868	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 4868	RunNo: 6976		
Prep Date: 11/16/2012	Analysis Date: 11/19/2012	SeqNo: 202808	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	1.0 1.000	105 80	120	
Sample ID 1211698-001A	MS SampType: MS	TestCode: EPA Method	8021B: Volatiles	
Client ID: BatchQC	Batch ID: 4868	RunNo: 6976		
Prep Date: 11/16/2012	Analysis Date: 11/19/2012	SeqNo: 202816	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	1.0 0.9390	109 80	120	
Sample ID 1211698-001A	MSD SampType: MSD	TestCode: EPA Method	8021B: Volatiles	
Client ID: BatchQC	Batch ID: 4868	RunNo: 6976		
Prep Date: 11/16/2012	Analysis Date: 11/19/2012	SegNo: 202817	Units: %REC	

SPK value SPK Ref Val %REC LowLimit

106

Qualifiers:

Analyte

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits

Page 8 of 8

RPDLimit

0

Qual

%RPD

0

HighLimit

120

80



tiall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3075 FAX: 505-345-410:

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-410: Website: www.hallenvironmental.com

E EADOR	WIOKI	Website: www.hall	environ	men	tal.c	on						
Client Name:	Animas Environmental	Wo	ork Ord	ler N	lumi	per: 1	2117	26				
Received by/dat	e:M7 11/17/12											
Logged By:	Michelle Garcia	11/17/2012 2:00:00 PM				mi	ui G ui G	nui				
Completed By:	Michelle García	11/17/2012 3:01:45 PM				mi	ui G	nuie				
Reviewed By:	382/1/17/12						-					
Chain of Cus	•											
1. Were seals	intact?		Yes		No		Not	Present 🗹				
2. Is Chain of	Custody complete?		Yes	V	No		Not	Present 🗌	ļ			
3. How was th	e sample delivered?		Couri	er								
Log In												
	present? (see 19. for cooler sp	pecific information)	Yes	V	Nο			na 🗆	l			
5. Was an atte	empt made to cool the samples	?	Yes	V	No			NA 🗆				
6. Were all sa	mples received at a temperatur	re of >0° C to 6.0°C	Yes	V	No			na 🗆	I			
7. Sample(s) i	in proper container(s)?		Yes	V	No							
	ample volume for indicated test	(s)?	Yes	V	No					•		
9. Are sample	s (except VOA and ONG) prope	erly preserved?	Yes	V	No							
10. Was preser	vative added to bottles?		Yes		No	V		na 🗆				
11. VOA vials h	nave zero headspace?		Yes		No		No V	OA Vials 🗹	İ			
12. Were any s	ample containers received brok	en?	Yes		No	V	Γ					_
	work match bottle labels? epancies on chain of custody)		Yes	V	No			# of present bottles che for pH:				
14. Are matrice	s correctly identified on Chain o	of Custody?	Yes	abla	No			•	(<2 or	>12 unless	s noted)	
15. Is it clear wi	hat analyses were requested?			lacksquare				Adjus	sted?			
	lding times able to be met? customer for authorization.)		Yes	V	No			Check	ked by:			
Special Hand	lling (if applicable)						L					_
	notified of all discrepancies with	this order?	Yes		No			NA 🗹]			
Persor	n Notified:	Date:						-				
By Wh	nom:	Via:] eMail] Ph	one (] Fa	x 🗌 In Pe	rson	_		
Regard	ding:									<u>'</u>		
Client	Instructions:											
18. Additional re	emarks:											
40.0=1==1:4:												
19. <u>Cooler Info</u> Cooler N		seal Intact Seal No Se	eal Date	e		Signe	d By					
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			istody Record] lum-Around	Time:						AII	E	ni.	/TE	3	ri r	AFR	AT	. 1	
			ronmental Sorvices	☐ Standard Project Name	ß∕ Rush e:	Same Day			(A)	A		LY:	SIS	5 L	.AE	30		TOF		
Mailing	Address	624 E	E. Comanche	COP ME	rore C#2	2E		49	01 Ha	awkin	s NE	- All	buqu	erqu	e, Ni	M 87	109			
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Phone	#: 505	-564	1-2281				***	_				Anal	ysis	Req	uest					200
email o	r Fax#:			Project Mana	ger:		1=	Ş	(leg]	0	S			ļ]		
QA/QC I	Package: dard		☐ Level 4 (Full Validation)	D. Wats	eη		(8021)	(Gas o	sas/Die				PO ₄ ,S	PCB'						Ì
Accredi		□ Othe	ır	Sampler: H.	woods XXX	edino e e e e e e e e e e e e e e e e e e e	4	+ TPH	9388	18.1)	AF)		ON'EC	s / 808;		(X)				or N
	(Type)_			Sample Tem	pjalure, .	2.0		出	9g	od 4		etals	Ž	cide	æ	-YC	ļ			>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAENO L	71 + Xi	BTEX + M	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
11/16/12	843	Seil	SC-1	WEOH KIT	MeOH Non	001	X													
1/10/12	846	50:1	SC-Z	MeOBICITY 401	Wan Non	502	X		X											!
	950		SC-3	MUCH KILL	17770147	1003	文													<u> </u>
		Soil	5C-4	MEOHKH!	MLOH /	004	人													
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1/16/12	1757	samelés suhi	ustuwalte « mitted to Hall Environmental may be subo	contracted to other a	Coredited Jahoratoris	UMALA 1400) Us	ur Il); kg	GAF	LCIA				ted on	the ar	nalylical	5mW	<u>_</u>	



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

November 30, 2012

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

FAX

RE: CoP Moore C#2E

OrderNo.: 1211880

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/21/2012 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1211880

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/30/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: CoP Moore C#2E

Collection Date: 11/20/2012 9:58:00 AM

Lab ID: 1211880-001

Matrix: MEOH (SOIL) Received Date: 11/21/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES		,			Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	11/27/2012 1:23:51 AM
Toluene	ND	0.050	mg/Kg	1	11/27/2012 1:23:51 AM
Ethylbenzene	ND	0.050	mg/Kg	1	11/27/2012 1:23:51 AM
Xylenes, Total	ND	0.10	mg/Kg	1	11/27/2012 1:23:51 AM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	11/27/2012 1:23:51 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 1 of 7

Lab Order 1211880

Date Reported: 11/30/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

CoP Moore C#2E

Project: Lab ID: 1211880-002

Matrix: SOIL

Client Sample ID: SC-7

Collection Date: 11/20/2012 10:00:00 AM Received Date: 11/21/2012 10:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	1400	49	mg/Kg	5	11/29/2012 10:06:12 PM
Surr: DNOP	116	77.6-140	%REC	5	11/29/2012 10:06:12 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	1800	240	mg/Kg	50	11/28/2012 2:01:48 PM
Surr: BFB	249	84-116	S %REC	50	11/28/2012 2:01:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	2.4	mg/Kg	50	11/28/2012 2:01:48 PM
Toluene	ND	2.4	mg/Kg	50	11/28/2012 2:01:48 PM
Ethylbenzene	19	2.4	mg/Kg	50	11/28/2012 2:01:48 PM
Xylenes, Total	140	4.8	mg/Kg	50	11/28/2012 2:01:48 PM
Surr: 4-Bromofluorobenzene	118	80-120	%REC	50	11/28/2012 2:01:48 PM

^	٠.		
Oua	u	rie	rs

- Value exceeds Maximum Contaminant Level.
- Ē Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1211880

30-Nov-12

Client:

Animas Environmental Services

Project:

CoP Moore C#2E

Sample ID MB-5006 Client ID: PBS	•	ype: M 6 1D: 50			tCode: E l RunNo: 7		8015B: Dies	el Range (Organics	
Prep Date: 11/28/2012	Analysis D)ate: 1	1/29/2012	S	SeqNo: 2	08701	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quaf
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10	_	10.00		103	77.6	140			
Sample ID LCS-5006	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID: LCSS	Batch	n ID: 50	06	F	RunNo: 7	200				

Sample ID LCS-5006	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Diese	el Range (Organics	
Client ID: LCSS	Batch	1D: 50	06	F	RunNo: 7	200				
Prep Date: 11/28/2012	Analysis D	ate: 1	1/29/2012	S	SeqNo: 2	08704	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.0	47.4	122			
Surr: DNOP	4.6		5.000		91.7	77.6	140			

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

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1211880

30-Nov-12

Client:		Environmen	tal Sei	rvices							
Project:	CoP Moo	ore C#2E								<u> </u>	
Sample ID	MB-4943	SampTy	/pe: M	BLK	Tes	tCode: E	PA Method	8015B: Gas	oline Rang	je	
Client ID:	PBS	Batch	ID: 49	143	F	RunNo: 7	7098				
Prep Date:	11/21/2012	Analysis Da	ate: 1	1/26/2012	S	SegNo: 2	205883	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		960		1000		95.6	84	116			
Sample ID	LCS-4943	SampTy	/pe: L (cs	Tes	tCode: E	PA Method	8015B: Gas	oline Rang	l le	
Client ID:	LCSS	Batch	ID: 49	143	F	RunNo: 7	098				
Prep Date:	11/21/2012	Analysis Da	ate: 1	1/26/2012	S	SeqNo: 2	05884	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		990		1000		98.9	84	116		·	-
Sample ID	1211877-002AMS	SampTy	/pe: M :	s	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	je	
Client ID:	BatchQC	Batch	ID: 49	43	F	RunNo: 7	098		Ī		
Prep Date:	11/21/2012	Analysis Da	ate: 1	1/26/2012	S	SeqNo: 2	05887	Units: %RE	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		980		939.0		104	84	116			
Sample ID) 1211877-002AMSD SampType: MSD TestCode: EPA Method 8015B: Gasoline Rar										
Client ID:	BatchQC	Batch	ID: 49	43	F	tunNo: 7	098				
Prep Date:	11/21/2012	Analysis Da	ete: 1	1/26/2012	S	SeqNo: 2	05888	Units: %RE	:c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		990		943.4		105	84	116	0	0	
Sample ID	MB-4994	SampTy	/pe: M I	BLK	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 49	94	F	RunNo: 7	164		Ī		
Prep Date:	11/27/2012	Analysis Da	ate: 1	1/28/2012	S	eqNo: 2	07710	Units: mg/k	⟨ g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<u> </u>	Organics (GRO)	ND	5.0				 -		i		
Surr: BFB		960		1000		95.9	84	116			
Sample ID	LCS-4994	SampTy	pe: LC	s	Test	Code: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 49	94	R	tunNo: 7	164				
Prep Date:	11/27/2012	Analysis Da	ate: 1	1/28/2012	S	eqNo: 2	07711	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (GRO)	24	5.0	25.00	0	95.0	74	117			
Surr: BFB		1000		1000		100	84	116			

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

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1211880

30-Nov-12

Client:

Animas Environmental Services

Project:

CoP Moore C#2E

Sample ID 1211942-001AMS	SampT	ype: MS		Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e !	
Client ID: BatchQC	Batch	ID: 49	94	F	RunNo: 7	164				
Prep Date: 11/27/2012	Analysis D	ate: 11	1/28/2012	S						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.58	3.125	78.3	70	130			
Surr: BFB	970		943.4		102	84	116			

Sample ID 1211942-001AMS	SD SampT	уре: М S	SD .	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID: BatchQC	Batch	ID: 49 9	94	F	tunNo: 7	164				
Prep Date: 11/27/2012	Analysis D	ate: 11	/28/2012	S						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.45	3.125	78.7	70	130	0.0850	22.1	
Surr: BFB	970		938.1		104	84	116	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

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1211880

30-Nov-12

					-			=			
Client:	Animas E	Environmen	tal Ser	vices							
Project:	CoP Mod	ore C#2E	_								
Sample ID	MB-4943	SampTy	/pe: Mi	BLK	Tes	tCode: E					
Client ID:	PBS	Batch	ID: 49	43	1	RunNo: 7					
Prep Date:	11/21/2012	Analysis Da	ate: 1	1/26/2012	:	SeqNo: 2	05970	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	nofluorobenzene	1.0		1.000		105	80	120			
Sample ID	LCS-4943	SampTy	/pe: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID:	LCS\$	Batch	ID: 49	43	i	RunNo: 7	098				
Prep Date:	11/21/2012	Analysis Da	ate: 1	1/26/2012	;	SeqNo: 2	05971	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		109	80	120			
Sample ID	1211877-001AMS	SampTy	/pe: M \$	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	D: BatchQC Batch ID: 4943				1	RunNo: 7	098				
Prep Date:	11/21/2012	Analysis Da	ate: 1	1/26/2012	:	SeqNo: 2	05982	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1	_	0.9881		109	80	120			
Sample ID 1211877-001AMSD SampType: MSD					Tes	tCode: El					
Client ID:	BatchQC	Batch	ID: 49	43	ı	RunNo: 7					
Prep Date:	11/21/2012	Analysis Da	ate: 1	1/26/2012	;	SeqNo: 2	05983	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		0.9852		112	80	120	0	0	
Sample ID	MB-4994	SampTy	/pe: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batch	ID: 49	94	I	RunNo: 7					
Prep Date:	11/27/2012	Analysis Da	ate: 1	1/28/2012	:	SeqNo: 2					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene Ethylbenzene		ND ND	0.050								
Xylenes, Total		ND	0.050								
•	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID	LCS-4994	SampTy	/pe: LC	s	Tes	tCode: E	_				
Client ID:	LCS\$	Batch	ID: 49	94	1	RunNo: 7		-			
Prep Date:	11/27/2012	Analysis Da	ate: 1	1/28/2012	:	SeqNo: 2	07763	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.99	0.050	1.000	0	98.9	76.3	117			
Toluene .		1.0	0.050	1.000	0	101	80	120			•
Ethylbenzene		1.0	0.050	1.000	0	102	77	116			
Qualifiers:											
-	e exceeds Maximum C	Contaminant L	evel.		B Analyte	detected i	n the associat	ed Method Bla	ınk		
E Value above quantitation range					H Holdin	g times for	preparation o	or analysis exce	eded		
J Analyte detected below quantitation limits						tected at th	Page 6	of 7			
P Sample pH greater than 2					R RPD o	itside acce					

Hall Environmental Analysis Laboratory, Inc.

WO#:

1211880

30-Nov-12

Qual

Client:

Animas Environmental Services

Project:

CoP Moore C#2E

Sample ID	LCS-4994
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SampType: LCS

TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS

Batch ID: 4994

RunNo: 7164

Prep Date: 11/27/2012

Analysis Date: 11/28/2012

SeqNo: 207763

Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Xylenes, Total	3.1	0.10	3.000	0	103	76.7	117		
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120		

Qua	ìi	fi	•		c	•
Vua	ш	ш	v	1	э	Ġ

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

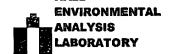
В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 7 of 7



4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

(EL: 505-345-3975 FAX: 505-345-410)
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental / / Work Order Number: 1211880	
Received by/date: MA 1//21//2	
Logged By: Michelle Garcia 11/21/2012 10:00:00 AM Completed By: Michelle Garcia 11/21/2012 10:47:38 AM Mikelle Garcia	
Completed By: Michelle Garcia 11/21/2012 10:47:38 AM Michelle Garcia	
Reviewed By: II/21/12	
Chain of Custody	
1. Were seals intact?	t 🗹
2. Is Chain of Custody complete? Yes V No Not Present	t 🗆
3. How was the sample delivered? Courier	
<u>Log In</u>	
4. Coolers are present (see 18. for cooler specific information)	
5. Was an attempt made to cool the samples?	A 🗆
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ N/	
7 Sample(s) in proper container(s)? Yes ☑ No □	
10. Was preservative added to bottles?	
11. VOA vials have zero headspace?	s 🗹
12. Were any sample containers received broken?	
13. Does paperwork match bottle labels?	eserved checked
(Note discrepancies on chain of custody) for pH:	
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ 15. Is it clear what analyses were requested? Yes ☑ No ☐	(<2 or >12 unless noted) Adjusted?
10, to k som what all dispersed.	
	thecked by:
Special Handling (if applicable)	
	A 🗹
Person Notified: Date:	
	n Person
Regarding:	
Client Instructions:	
18. Additional remarks:	
10. · · · · · · · · · · · · · · · · · · ·	
19. Cooler Information	
Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 1.0 Good Yes	
<u> </u>	

Chain-of-Custody Record			Turn-Around Time:				HALL ENVIRONMENTAL														
Client:	Animas	Environ	nmento Fervices, UC	対 Standard □ Rush																AL OR'	
				Project Name:					<u>(4.</u>	ÇŢ				viron							
Mailing	Address	624 E	Comanche	Cop Moore C#2E					49	01 H				lbuqu				109			
		MM,		Project #:				1				5-397		Fax							
Phone :	Phone #: 50S - 564 - 2281]				يعمر الأخرارة	gur.			14 - 14 - 24.	Ana	lysis	Req	ues	t	د الماد بود هر		, A	
email or Fax#:			Project Mana	ger:				ıly)	(je			1	T.₹							T	
QA/QC Package:				_				FEEN (8021)	as or	3/Dies				2,50	PCB's				1		
Ŋ Stan			☐ Level 4 (Full Validation)					<u>*</u>	9) 1	Gas	}	- {	-	P. 2	22.0	١.			ſ	ł	
Accreditation □ NELAP □ Other			Sampler: H.	Woods West	el No		T T	TPI	15B (18.1)	4 2		ON.E	808 /		8			-	I N	
□ EDD (Type)			Sample Tem	perature			4	꾪	80	44	9 2		2	des		9	. (Į	- {	3	
Date	Time	Matrix	Sample Request ID		Preservative Type	A PARTE ALE NO			BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	BCBA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
1/20/12	958	50'll	5C-6	MEOH KIT	MeO H Non	-0	1	X													
1/20/12	1000	Soll	SC-7	402	Non	-0	02	X		X	_	_						_		_	\downarrow
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Date:	Time:	Relinquishe	l ed by:	Received by: Date Time			9	Ren	nark	s: B	11 +	Con	1000	Ohill.	ا م ما		اا				
20 12 Date:	1119 Time:	Seat Relinquishe		Received by: Date Time				Remarks: Bill to ConocoPhillips W0: 9216884 Super: Kendee Bassing Ordered by: Eric Smith User 1D: KGARCIA													
20/12	1752	Chr	atre labeles	Marill	for	11/2/12 11	100	1									_				
If	necessary,	samples subr	mitted to Hall Environmental may be subc	ontracted to other ac	coredited laboratorie	es./This serves as notice	ce of this	possil	oility.	Any sul	o-contra	cted da	ta will	he clear	tv nests	n hate	the e	mhdin	.!		