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

State of New Mexico
Energy Minerals and Natural Resources

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 in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: **ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 E. 30th Street, Farmington, NM 87402**	Telephone No. **505-326-9786**
Facility Name **San Juan 30-5 Unit 230**	Facility Type **Gas Well**

Surface Owner **State**	Mineral Owner **State**	API No. **3003924903**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**32**	**30N**	**05W**	**1175**	**North**	**973'**	**East**	**Rio Arriba**

Latitude 36.77299 Longitude -107.37445

NATURE OF RELEASE

Type of Release **Historic Impacted Soil**	Volume of Release **n/a**	Volume Recovered **282 yds**
Source of Release **Compressor**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **11-28-2012 (during Winter Closure)**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	RCVD SEP 5 '13
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	OIL CONS. DIV. DIST. 3

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

Describe Cause of Problem and Remedial Action Taken.*
A historic release of lube oil was discovered while COP Contractors were removing a compressor skid at the location.

Describe Area Affected and Cleanup Action Taken.*
Historical hydrocarbon impacted soil was discovered when compressor skid was being removed from the subject well. The excavation was 30' x 40' x 6' in depth and 282 yds of soil was transported to IEI land farm and 282 yds of clean soil was transported from Aztec Machine Company and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: **Lisa M. Hunter**	Approved by Environmental Specialist:
Title: **Field Environmental Specialist**	Approval Date: 9/11/2013 Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval: Attached ☐
Date: **September 3, 2013** Phone: **505-326-9786**	

* Attach Additional Sheets If Necessary

nJK1325440980

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

August 7, 2013

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-4
5525 Hwy 64
Farmington, New Mexico 87401

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

RE: Initial Release Assessment and Final Excavation Report
San Juan 30-5 #230
Rio Arriba County, New Mexico

Dear Ms. Hunter:

On November 29, 2012, and April 17, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 30-5 #230, located in Rio Arriba County, New Mexico. A historical release of lube oil was discovered while CoP contractors were removing a compressor skid at the location. The initial release assessment was completed by AES on November 29, 2012. The final excavation was completed by CoP contractors while AES was on location on April 17, 2013.

1.0 Site Information

1.1 Location

Location – NE¼ NE¼, Section 32, T30N, R5W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.77315 and W107.37507, respectively
Release Location Latitude/Longitude – N36.77296 and W107.37514, respectively
Land Jurisdiction – State of New Mexico
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, November 2012

1.2 NMOCD Ranking

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- **Depth to Groundwater:** A cathodic protection data sheet dated February 1992 for the San Juan 30-5 Unit 41MV, located approximately 300 feet south at roughly the same elevation as the San Juan 30-5 #230, reported the depth to groundwater as 30 feet below ground surface (bgs). (20 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The wash in La Jara Canyon is located approximately 475 feet west of the location. (10 points)

1.3 Assessment

AES was initially contacted by Ashley Maxwell of CoP on November 29, 2012, and on the same day, Heather Woods and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 26 soil samples from 6 borings (SB-1 through SB-6) in and around the release area. Soil borings were terminated between 6 and 12 feet bgs. Based on the field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On April 17, 2013, 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. The area of the final excavation was approximately 36 feet by 29 feet by 7 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 26 soil samples from six soil borings (SB-1 through SB-6) and 5 composite samples (SC-1 through SC-5) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Three samples (SB-1, SB-3, and SB-4) collected during the initial assessment were submitted for confirmation laboratory analysis. One composite sample (SC-1) was also collected for 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 soil samples (SB-1, SB-3, and SB-4) 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:

- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

On November 29, 2012, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 2.2 ppm in SB-1 up to 10.4 ppm in SB-1 and SB-2. Field TPH concentrations ranged from less than 20.0 mg/kg up to 3,720 mg/kg in SB-1.

On April 17, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 1.7 ppm in SC-2 up to 5.8 ppm in SC-3. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-3 up to 64.0 mg/kg in SC-2. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Field Screening VOCs and TPH Results
San Juan 30-5 #230 Initial Release Assessment and Final Excavation
November 2012 and April 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
	*NMOCD Action Level**		*100*	*100*
SB-1	11/29/12	2	3.4	**3,720**
		4	2.2	30.1
		6	3.9	**220**
		8	5.4	76.8
		10	7.0	NA
		12	10.4	51.5
SB-2	11/29/12	0.5	10.4	<20.0
		4	9.4	NA
		6	7.0	<20.0
SB-3	11/29/12	0.5	5.7	86.2
		2	5.1	NA
		4	3.8	NA
		6	6.4	<20.0
SB-4	11/29/12	0.5	6.5	55.5
		2	6.3	NA
		4	4.5	NA
		6	5.5	**2,200**
		8	3.7	<20.0
SB-5	11/29/12	0.5	4.7	34.1
		2	6.4	NA
		4	2.8	NA
		6	2.5	<20.0
SB-6	11/29/12	0.5	7.5	NA
		2	5.6	NA
		4	5.8	NA
		6	7.0	<20.0
SC-1	4/17/13	1 to 7	3.3	35.3
SC-2	4/17/13	1 to 7	1.7	64.0

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
	*NMOCD Action Level**		*100*	*100*
SC-3	4/17/13	1 to 7	5.8	<20.0
SC-4	4/17/13	1 to 7	3.4	29.8
SC-5	4/17/13	7	3.2	28.4

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993); NA – not analyzed

Laboratory analyses for SB-1, SB-3, and SB-4 were used to confirm field screening results during the initial assessment. TPH concentrations as GRO/DRO/MRO ranged from below laboratory detection limits up to 520 mg/kg in SB-4. Results are presented in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results –TPH
San Juan 30-5 #230 Initial Release Assessment
November 2012

Sample ID	Date Sampled	Sample Depth (ft bgs)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
NMOCD Action Level*				***100***	
SB-1	11/29/12	6	<5.0	<9.8	<49
SB-3	11/29/12	0.5	25	<10	<50
SB-4	11/29/12	6	**<5.0**	**20**	**500**

NA = not analyzed
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On November 29, 2012, AES conducted an initial assessment of lube oil contaminated soils associated with a historical release at the San Juan 30-5 #230. 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 rank of 30. Field screening results for VOCs were reported below the NMOCD action level of 100 ppm VOCs in each soil boring. Field screening results showed TPH concentrations above the NMOCD action level of 100 mg/kg in SB-1 and SB-4, with the highest field TPH concentration reported in SB-1 with 3,720 mg/kg. Laboratory analytical results from the

initial assessment reported TPH as GRO/DRO/MRO above the NMOCD action level in SB-4 with 520 mg/kg.

On April 17, 2013, final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below the NMOCD action level of 100 ppm for all of the final four walls and base of the excavation. Field TPH concentrations were reported below the applicable NMOCD action level of 100 mg/kg in each sample, with the highest concentration reported in SC-2 with 64.0 mg/kg.

Based on final field screening results of the excavation of petroleum contaminated soils at the San Juan 30-5 #230, VOC and TPH concentrations were reported below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

Landrea R. Cupps

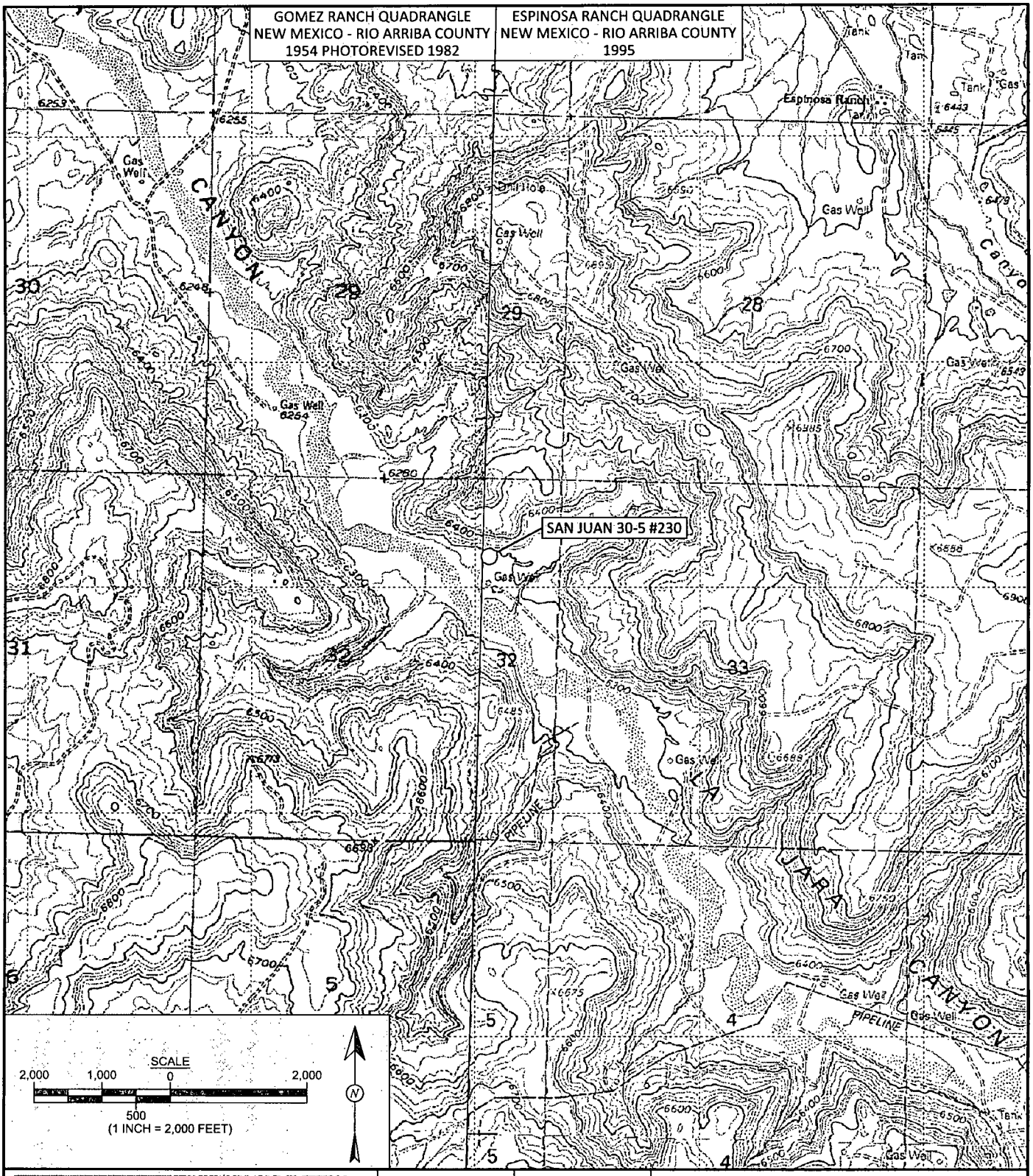
Landrea Cupps
Environmental Scientist

Elizabeth McNally

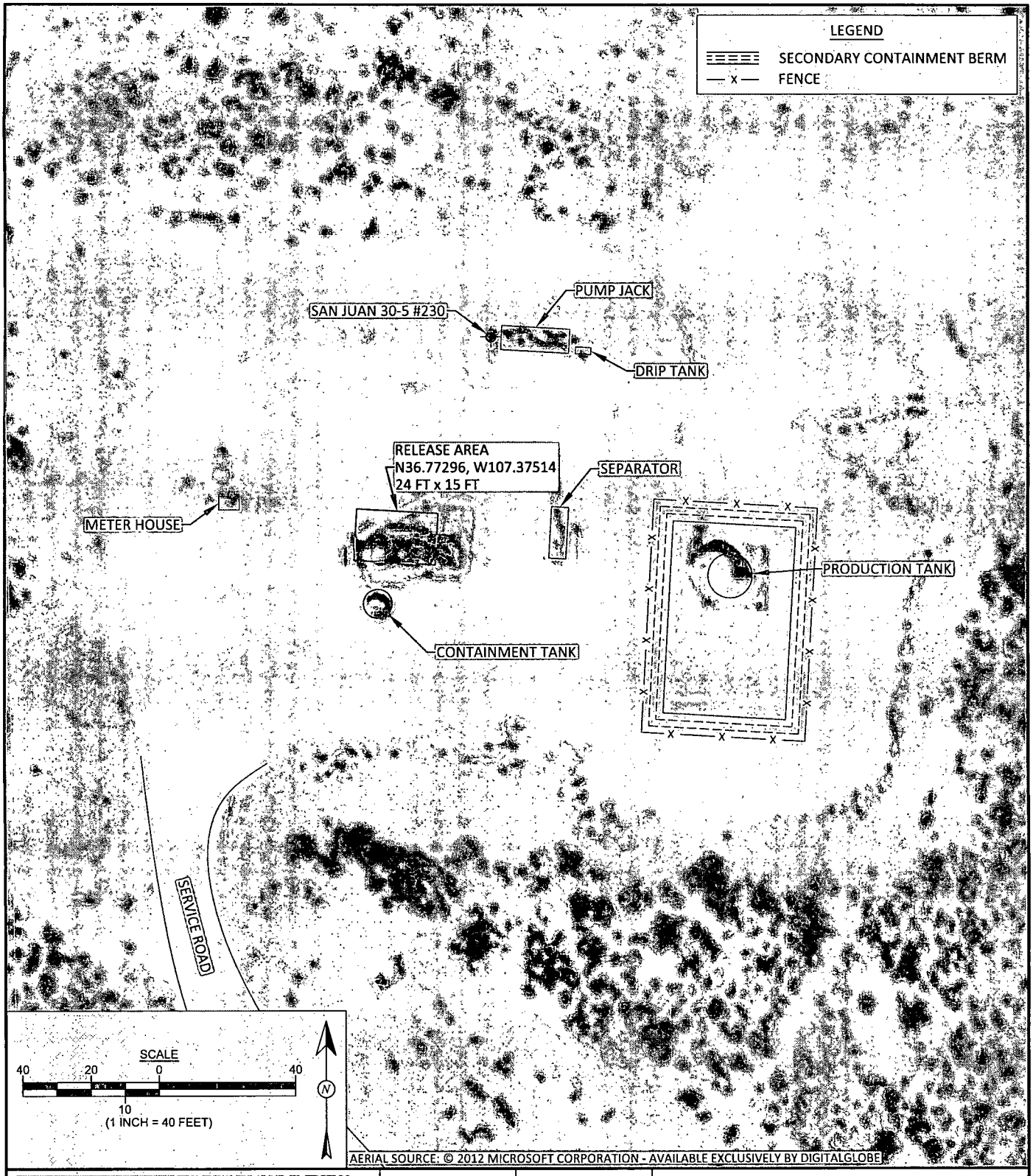
Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, November 2012
Figure 3. Initial Assessment Sample Locations and Results, November 2012
Figure 4. Final Excavation Sample Locations and Results, April 2013
AES Field Screening Report 112912
AES Field Screening Report 041713
Hall Laboratory Analytical Report 1211A83



Animas Environmental Services, LLC	**DRAWN BY:** C. Lameman	**DATE DRAWN:** November 30, 2012	**FIGURE 1**
	REVISIONS BY: C. Lameman	**DATE REVISED:** November 30, 2012	**TOPOGRAPHIC SITE LOCATION MAP**
	CHECKED BY: D. Watson	**DATE CHECKED:** November 30, 2012	ConocoPhillips SAN JUAN 30-5 #230 RIO ARRIBA COUNTY, NEW MEXICO NE¼ NE¼, SECTION 32, T30N, R5W N36.77315, W107.37507
	APPROVED BY: E. McNally	**DATE APPROVED:** November 30, 2012	



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** November 30, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** November 30, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** November 30, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** November 30, 2012

FIGURE 2

AERIAL SITE MAP
NOVEMBER 2012
ConocoPhillips
SAN JUAN 30-5 #230
RIO ARRIBA COUNTY, NEW MEXICO
NE¼ NE¼, SECTION 32, T30N, R5W
N36.77315, W107.37507

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS
NOVEMBER 2012
ConocoPhillips
SAN JUAN 30-5 #230
RIO ARRIBA COUNTY, NEW MEXICO
NE¼ NE¼, SECTION 32, T30N, R5W
N36.77315, W107.37507

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	November 30, 2012
REVISIONS BY:	**DATE REVISED:**
C. Lameman	November 30, 2012
CHECKED BY:	**DATE CHECKED:**
D. Watson	November 30, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	November 30, 2012

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

SCALE
10 6 0 10
2
(1 INCH = 10 FEET)

Field Screening Results

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SB-1	11/29/12	2	3.4	**3,720**
		4	2.2	30.1
		6	3.9	**220**
		8	5.4	76.8
		10	7.0	NA
		12	10.4	51.5
SB-2	11/29/12	0.5	10.4	<20
		4	9.4	NA
		6	7.0	<20
SB-3	11/29/12	0.5	5.7	86.2
		2	5.1	NA
		4	3.8	NA
		6	6.4	<20
SB-4	11/29/12	0.5	6.5	55.5
		2	6.3	NA
		4	4.5	NA
		6	5.5	**2,200**
		8	3.7	<20
SB-5	11/29/12	0.5	4.7	34.1
		2	6.4	NA
		4	2.8	NA
		6	2.5	<20
SB-6	11/29/12	0.5	7.5	NA
		2	5.6	NA
		4	5.8	NA
		6	7.0	<20

NA - NOT ANALYZED

Laboratory Analytical Results

Sample ID	Date	Depth (ft)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
NMOCD ACTION LEVEL			100		
SB-1	11/29/12	6	<5.0	<9.8	<49
SB-3	11/29/12	0.5	32	<10	<50
SB-4	11/29/12	6	<5.0	20	500

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8015B.

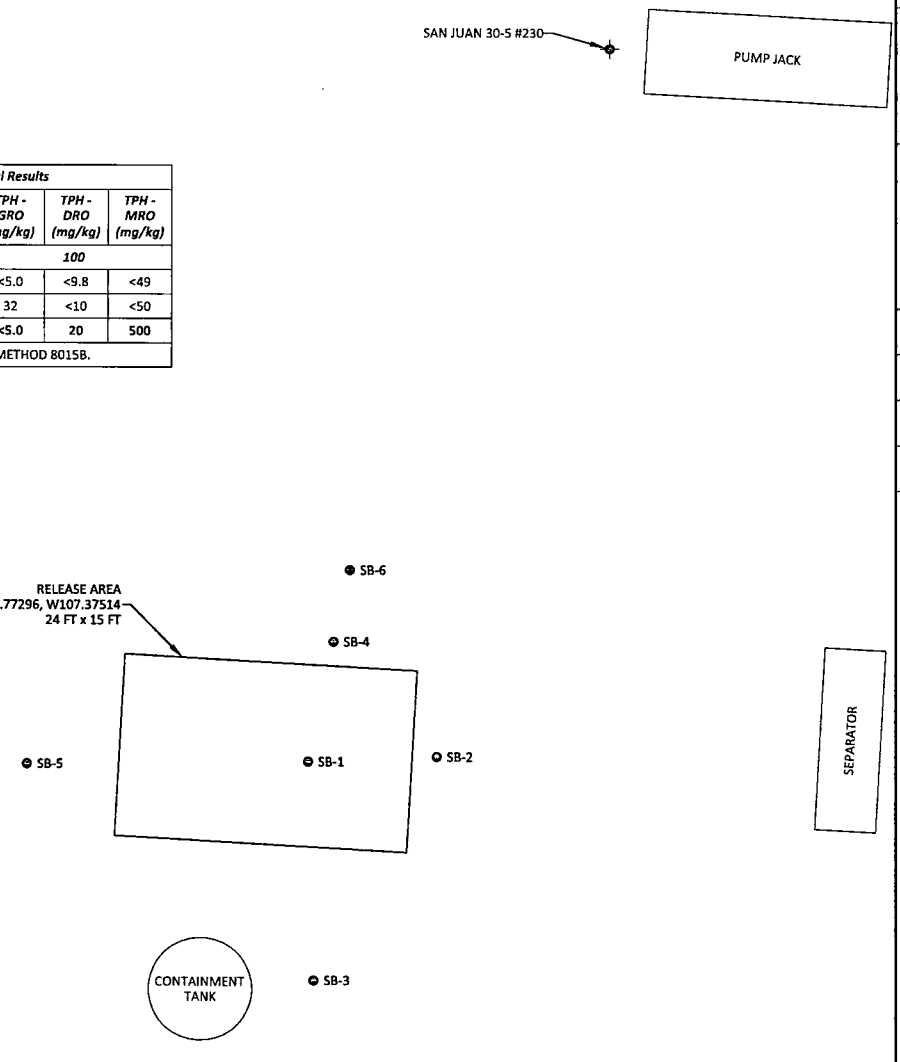
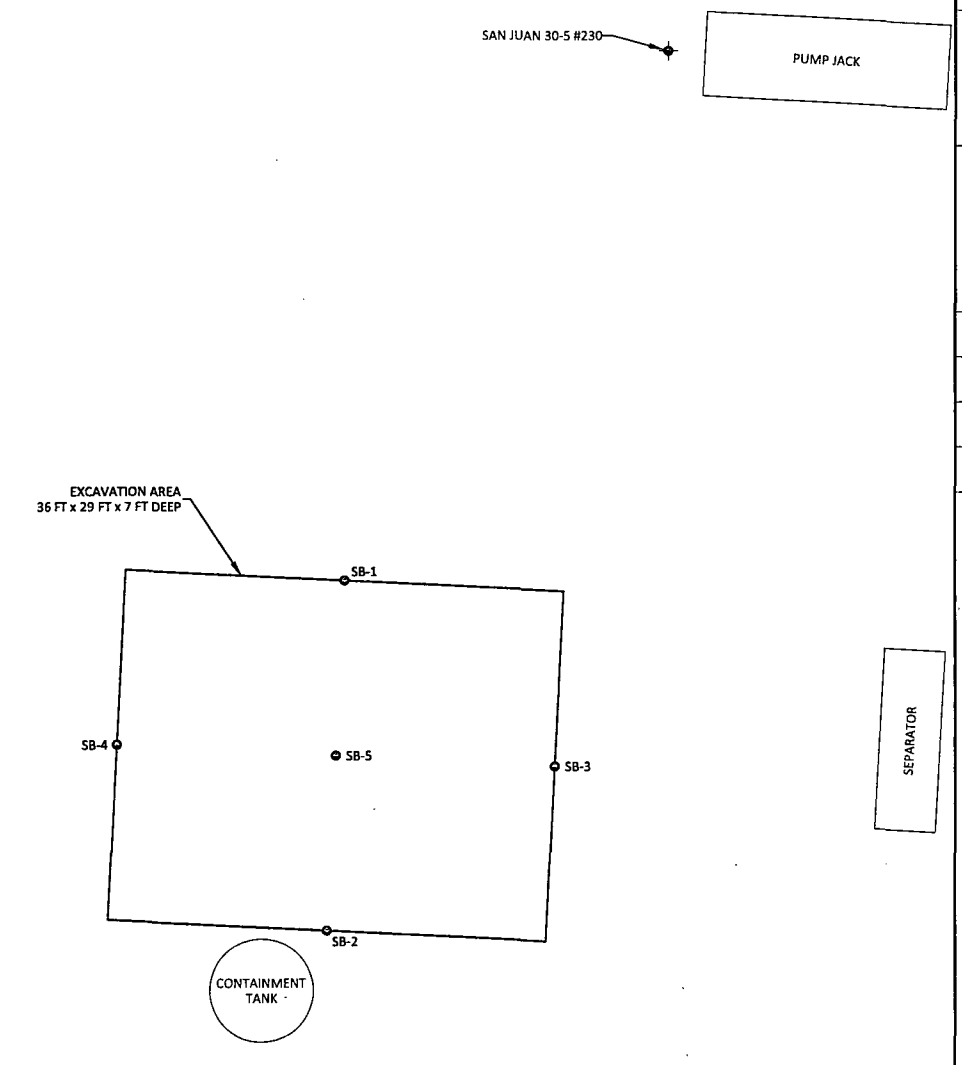


FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
APRIL 2013
ConocoPhillips
SAN JUAN 30-5 #230
RIO ARRIBA COUNTY, NEW MEXICO
NE¼ NE¼, SECTION 32, T30N, R5W
N36.77315, W107.37507

Field Screening Results				
Sample ID	*Date*	*Depth (ft)*	*OVM-PID (ppm)*	*TPH (mg/kg)*
NMOCD ACTION LEVEL			*100*	*100*
SC-1	4/17/13	1 to 7	3.3	35.3
SC-2	4/17/13	1 to 7	1.7	64.0
SC-3	4/17/13	1 to 7	5.8	<20.0
SC-4	4/17/13	1 to 7	3.4	29.8
SC-5	4/17/13	7	3.2	28.4
ALL SAMPLES WERE 5-POINT COMPOSITES.				



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** April 22, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** April 22, 2013
CHECKED BY: D. Watson	**DATE CHECKED:** April 22, 2013
APPROVED BY: E. McNally	**DATE APPROVED:** April 22, 2013

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- — x — FENCE

N

SCALE
10 6 0 10
2
(1 INCH = 10 FEET)

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 30-5 #230

Date: 11/29/2012

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 @ 2'	11/29/2012	12:32	3.4	13:10	3,720	40.0	1	HMW
SB-1 @ 4'	11/29/2012	12:40	2.2	13:21	30.1	20.0	1	HMW
SB-1 @ 6'	11/29/2012	12:50	3.9	13:23	220	20.0	1	HMW
SB-1 @ 8'	11/29/2012	12:56	5.4	13:42	76.8	20.0	1	HMW
SB-1 @ 10'	11/29/2012	13:07	7.0	*Not Analyzed for TPH*				
SB-1 @ 12'	11/29/2012	13:18	10.4	13:58	51.5	20.0	1	HMW
SB-2 @ 0.5'	11/29/2012	13:24	10.4	14:38	<20.0	20.0	1	HMW
SB-2 @ 4'	11/29/2012	13:34	9.4	*Not Analyzed for TPH*				
SB-2 @ 6'	11/29/2012	13:46	7.0	14:41	<20.0	20.0	1	HMW
SB-3 @ 0.5'	11/29/2012	13:53	5.7	14:46	86.2	20.0	1	HMW
SB-3 @ 2'	11/29/2012	13:56	5.1	*Not Analyzed for TPH*				
SB-3 @ 4'	11/29/2012	14:00	3.8	*Not Analyzed for TPH*				
SB-3 @ 6'	11/29/2012	14:05	6.4	14:59	<20.0	20.0	1	HMW
SB-4 @ 0.5'	11/29/2012	14:12	6.5	15:31	55.5	20.0	1	HMW
SB-4 @ 2'	11/29/2012	14:16	6.3	*Not Analyzed for TPH*				
SB-4 @ 4'	11/29/2012	14:20	4.5	*Not Analyzed for TPH*				
SB-4 @ 6'	11/29/2012	14:25	5.5	15:34	2,200	20.0	1	HMW
SB-4 @ 8'	11/29/2012	14:38	3.7	16:06	<20.0	20.0	1	HMW
SB-5 @ 0.5'	11/29/2012	14:46	4.7	15:36	34.1	20.0	1	HMW
SB-5 @ 2'	11/29/2012	14:50	6.4	*Not Analyzed for TPH*				
SB-5 @ 4'	11/29/2012	14:52	2.8	*Not Analyzed for TPH*				
SB-5 @ 6'	11/29/2012	14:57	2.5	15:38	<20.0	20.0	1	HMW

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-6 @ 0.5'	11/29/2012	15:41	7.5	*Not Analyzed for TPH*				
SB-6 @ 2'	11/29/2012	15:44	5.6	*Not Analyzed for TPH*				
SB-6 @ 4'	11/29/2012	15:49	5.8	*Not Analyzed for TPH*				
SB-6 @6'	11/29/2012	15:52	7.0	16:17	<20.0	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: Heather M. Woods

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 30-5 #230

Date: 4/17/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/17/2013	10:06	North Wall	3.3	10:35	35.3	20.0	1	HMW
SC-2	4/17/2013	8:29	South Wall	1.7	9:12	64.0	20.0	1	HMW
SC-3	4/17/2013	10:54	East Wall	5.8	11:03	<20.0	20.0	1	HMW
SC-4	4/17/2013	10:08	West Wall	3.4	10:38	29.8	20.0	1	HMW
SC-5	4/17/2013	10:10	Base	3.2	10:40	28.4	20.0	1	HMW

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

Total Petroleum Hydrocarbons - USEPA 418.1
**Field TPH concentrations recorded may be below PQL.*

Analyst: Heather M. Woods

Report Finalized: 04/17/13

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 08, 2013

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

RE: CoP San Juan 30-5 #230 OrderNo.: 1211A83

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/30/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 05, 2012.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1211A83**
Date Reported: **7/8/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP San Juan 30-5 #230
Lab ID: 1211A83-001
Matrix: MEOH (SOIL)
Client Sample ID: SB-1 @ 6'
Collection Date: 11/29/2012 12:50:00 PM
Received Date: 11/30/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/30/2012 11:46:40 AM	5043
Surr: DNOP	97.3	77.6-140		%REC	1	11/30/2012 11:46:40 AM	5043
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/30/2012 1:51:56 PM	R7211
Surr: BFB	97.1	84-116		%REC	1	11/30/2012 1:51:56 PM	R7211

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

Qualifiers:

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

Analytical Report
Lab Order **1211A83**
Date Reported: **7/8/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP San Juan 30-5 #230
Lab ID: 1211A83-002 **Matrix:** MEOH (SOIL)

Client Sample ID: SB-3 @ 0.5'
Collection Date: 11/29/2012 1:53:00 PM
Received Date: 11/30/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/30/2012 12:27:10 PM	5043
Surr: DNOP	95.2	77.6-140		%REC	1	11/30/2012 12:27:10 PM	5043
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	25	5.0		mg/Kg	1	11/30/2012 2:49:32 PM	R7211
Surr: BFB	103	84-116		%REC	1	11/30/2012 2:49:32 PM	R7211

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

Qualifiers:

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

Analytical Report
Lab Order **1211A83**
Date Reported: **7/8/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP San Juan 30-5 #230
Lab ID: 1211A83-003
Matrix: MEOH (SOIL)
Client Sample ID: SB-4 @ 6'
Collection Date: 11/29/2012 2:25:00 PM
Received Date: 11/30/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **MMD**	
Diesel Range Organics (DRO)	20	9.8		mg/Kg	1	11/30/2012 12:48:41 PM	5043
Surr: DNOP	90.6	77.6-140		%REC	1	11/30/2012 12:48:41 PM	5043
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/30/2012 3:18:22 PM	R7211
Surr: BFB	96.1	84-116		%REC	1	11/30/2012 3:18:22 PM	R7211

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP San Juan 30-5 #230
Lab ID: 1211A83-004 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 11/29/2012 4:00:00 PM
Received Date: 11/30/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	30		mg/Kg	20	11/30/2012 1:53:01 PM	5048
MERCURY, TCLP						Analyst: **TMG**	
Mercury	ND	0.020		mg/L	1	12/5/2012 8:43:04 AM	5096
EPA METHOD 6010B: TCLP METALS						Analyst: **JLF**	
Arsenic	ND	5.0		mg/L	1	12/5/2012 12:48:26 PM	5108
Barium	ND	100		mg/L	5	12/5/2012 12:57:39 PM	5108
Cadmium	ND	1.0		mg/L	1	12/5/2012 12:48:26 PM	5108
Chromium	ND	5.0		mg/L	1	12/5/2012 12:48:26 PM	5108
Lead	ND	5.0		mg/L	1	12/5/2012 12:48:26 PM	5108
Selenium	ND	1.0		mg/L	1	12/5/2012 12:48:26 PM	5108
Silver	ND	5.0		mg/L	1	12/5/2012 12:48:26 PM	5108

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211A83

08-Jul-13

Client: Animas Environmental

Project: CoP San Juan 30-5 #230

Sample ID	MB-5048	SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID:	5048		RunNo:	7229				
Prep Date:	11/30/2012	Analysis Date:	11/30/2012		SeqNo:	209559	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-5048	SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID:	5048		RunNo:	7229				
Prep Date:	11/30/2012	Analysis Date:	11/30/2012		SeqNo:	209560	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Sample ID	1211A82-001BMS	SampType:	MS		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC	Batch ID:	5048		RunNo:	7229				
Prep Date:	11/30/2012	Analysis Date:	11/30/2012		SeqNo:	209562	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	30	15.00	0	124	64.4	117			S

Sample ID	1211A82-001BMSD	SampType:	MSD		TestCode:	EPA Method 300.0: Anions				
Client ID:	BatchQC	Batch ID:	5048		RunNo:	7229				
Prep Date:	11/30/2012	Analysis Date:	11/30/2012		SeqNo:	209563	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	30	15.00	0	124	64.4	117	0	20	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1211A83**

08-Jul-13

Client: Animas Environmental

Project: CoP San Juan 30-5 #230

Sample ID **MB-5043**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **5043**	RunNo: **7210**
Prep Date: **11/30/2012**	Analysis Date: **11/30/2012**	SeqNo: **209012** 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	11		10.00		107	77.6	140			

Sample ID **LCS-5043**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **5043**	RunNo: **7210**
Prep Date: **11/30/2012**	Analysis Date: **11/30/2012**	SeqNo: **209013** 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	89.7	47.4	122			
Surr: DNOP	4.8		5.000		96.9	77.6	140			

Sample ID **1211A74-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **5043**	RunNo: **7233**
Prep Date: **11/30/2012**	Analysis Date: **12/3/2012**	SeqNo: **209787** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.56	0	84.7	12.6	148			
Surr: DNOP	3.1		5.056		60.8	77.6	140			S

Sample ID **1211A74-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **5043**	RunNo: **7233**
Prep Date: **11/30/2012**	Analysis Date: **12/3/2012**	SeqNo: **209788** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.9	49.36	0	79.9	12.6	148	8.22	22.5	
Surr: DNOP	2.7		4.936		53.7	77.6	140	0	0	S

Sample ID **MB-5065**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **5065**	RunNo: **7233**
Prep Date: **12/3/2012**	Analysis Date: **12/3/2012**	SeqNo: **209790** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.3	77.6	140			

Sample ID **LCS-5065**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **5065**	RunNo: **7233**
Prep Date: **12/3/2012**	Analysis Date: **12/3/2012**	SeqNo: **209791** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.2	77.6	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1211A83**

08-Jul-13

Client: Animas Environmental

Project: CoP San Juan 30-5 #230

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R7211**	RunNo: **7211**
Prep Date:	Analysis Date: **11/30/2012**	SeqNo: **209495** 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	960		1000		95.5	84	116			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R7211**	RunNo: **7211**
Prep Date:	Analysis Date: **11/30/2012**	SeqNo: **209496** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.1	74	117			
Surr: BFB	1000		1000		102	84	116			

Sample ID **1211A82-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **R7211**	RunNo: **7211**
Prep Date:	Analysis Date: **11/30/2012**	SeqNo: **209513** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	5.0	17.24	0	93.3	70	130			
Surr: BFB	680		689.6		98.0	84	116			

Sample ID **1211A82-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **R7211**	RunNo: **7211**
Prep Date:	Analysis Date: **11/30/2012**	SeqNo: **209523** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	5.0	17.24	0	90.9	70	130	2.56	22.1	
Surr: BFB	690		689.6		99.5	84	116	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1211A83**

08-Jul-13

Client: Animas Environmental

Project: CoP San Juan 30-5 #230

Sample ID	**MB-5096**	SampType: **MBLK**			TestCode: **MERCURY, TCLP**					
Client ID:	**PBW**	Batch ID: **5096**			RunNo: **7281**					
Prep Date:	**12/4/2012**	Analysis Date: **12/5/2012**			SeqNo: **211141**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020								

Sample ID	**LCS-5096**	SampType: **LCS**			TestCode: **MERCURY, TCLP**					
Client ID:	**LCSW**	Batch ID: **5096**			RunNo: **7281**					
Prep Date:	**12/4/2012**	Analysis Date: **12/5/2012**			SeqNo: **211142**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	100	80	120			

Sample ID	**1211A83-004AMS**	SampType: **MS**			TestCode: **MERCURY, TCLP**					
Client ID:	**SC-1**	Batch ID: **5096**			RunNo: **7281**					
Prep Date:	**12/4/2012**	Analysis Date: **12/5/2012**			SeqNo: **211144**		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			

Sample ID	**1211A83-004AMSD**	SampType: **MSD**			TestCode: **MERCURY, TCLP**					
Client ID:	**SC-1**	Batch ID: **5096**			RunNo: **7281**					
Prep Date:	**12/4/2012**	Analysis Date: **12/5/2012**			SeqNo: **211145**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.020	0.005000	0	99.7	75	125	0	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1211A83**

08-Jul-13

Client: Animas Environmental

Project: CoP San Juan 30-5 #230

Sample ID **MB-5108**	SampType: **MBLK**	TestCode: **EPA Method 6010B: TCLP Metals**
Client ID: **PBW**	Batch ID: **5108**	RunNo: **7298**
Prep Date: **12/5/2012**	Analysis Date: **12/5/2012**	SeqNo: **211732** 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								
Selenium	ND	1.0								
Silver	ND	5.0								

Sample ID **LCS-5108**	SampType: **LCS**	TestCode: **EPA Method 6010B: TCLP Metals**
Client ID: **LCSW**	Batch ID: **5108**	RunNo: **7298**
Prep Date: **12/5/2012**	Analysis Date: **12/5/2012**	SeqNo: **211733** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0.01348	104	80	120			
Barium	ND	100	0.5000	0	96.9	80	120			
Cadmium	ND	1.0	0.5000	0	102	80	120			
Chromium	ND	5.0	0.5000	0	96.6	80	120			
Lead	ND	5.0	0.5000	0	94.3	80	120			
Selenium	ND	1.0	0.5000	0	102	80	120			
Silver	ND	5.0	0.1000	0.005920	99.9	80	120			

Sample ID **1211A83-004AMS**	SampType: **MS**	TestCode: **EPA Method 6010B: TCLP Metals**
Client ID: **SC-1**	Batch ID: **5108**	RunNo: **7298**
Prep Date: **12/5/2012**	Analysis Date: **12/5/2012**	SeqNo: **211735** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	103	75	125			
Cadmium	ND	1.0	0.5000	0	103	75	125			
Chromium	ND	5.0	0.5000	0	95.6	75	125			
Lead	ND	5.0	0.5000	0.005300	93.7	75	125			
Selenium	ND	1.0	0.5000	0	101	75	125			
Silver	ND	5.0	0.1000	0.002700	105	75	125			

Sample ID **1211A83-004AMSD**	SampType: **MSD**	TestCode: **EPA Method 6010B: TCLP Metals**
Client ID: **SC-1**	Batch ID: **5108**	RunNo: **7298**
Prep Date: **12/5/2012**	Analysis Date: **12/5/2012**	SeqNo: **211736** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0	106	75	125	0	20	
Cadmium	ND	1.0	0.5000	0	103	75	125	0	20	
Chromium	ND	5.0	0.5000	0	95.3	75	125	0	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1211A83**

08-Jul-13

Client: Animas Environmental

Project: CoP San Juan 30-5 #230

Sample ID	**1211A83-004AMSD**	SampType: **MSD**		TestCode: **EPA Method 6010B: TCLP Metals**						
Client ID:	**SC-1**	Batch ID: **5108**		RunNo: **7298**						
Prep Date:	**12/5/2012**	Analysis Date: **12/5/2012**		SeqNo: **211736**		Units: **mg/L**				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead		ND	5.0	0.5000	0.005300	93.6	75	125	0	20	
Selenium		ND	1.0	0.5000	0	102	75	125	0	20	
Silver		ND	5.0	0.1000	0.002700	105	75	125	0	20	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental — Work Order Number: 1211A83

Received by/date: MA 11/30/12

Logged By: Michelle Garcia 11/30/2012 9:45:00 AM Michelle Garcia

Completed By: Michelle Garcia 11/30/2012 10:10:30 AM Michelle Garcia

Reviewed By: 11/30/12

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 ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington NM 87401

Phone #: 505-564-2281

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: ASAP on TCLP
☐ Standard ☒ Rush Same Day

Project Name: CoP San Juan 30-5 #230

Project #:

Project Manager: D. Watson

Sampler: H. Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1201483	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) (Gas Only)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals TCLP	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4) 300.0	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
11/29/12	1250	Soil	SB-1@6'	MeOH Kit 4oz	MeOH	-001			X													
11/29/12	1353	Soil	SB-3@0.5'	MeOH Kit 4oz	MeOH	-002			X													
11/29/12	1425	Soil	SB-4@6	MeOH Kit 4oz	MeOH	-003			X													
11/29/12	1600	Soil	SC-1	3 4oz	—	-004							X	X								

Date:	Time:	Relinquished by:	Received by:	Date Time	Remarks:
11-29-12	2149	Heather M. Woods	Michelle Gao	11/30/12 0945	Bill to ConocoPhillips
Date:	Time:	Relinquished by:	Received by:	Date Time	