District I 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210
District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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.

Form C-141

			Rela	ease Notific	catior	and Co	orrective A	ction	n			
						OPERA	ΓOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Co	mpany Bu	rlington Res	ources O	il & Gas Compa	ny	Contact Cr	ystal Tafoya			··		
Address 34	01 East 30 th	St, Farming	gton, NM	1		Telephone 1	No.(505) 326-9	837				
Facility Na	ne: San Jua	an 30-6 Un	it 44			Facility Typ	e: Gas Well					
Surface Ow	ner Federa	l		Mineral (Owner F	ederal (SF	-080713-B)		API No	.30-039-0	7837	
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter N	Section 15	Township 30N	Range 6W	Feet from the		South Line South	Feet from the 1800	1	West Line West	County Rio Arrib	oa	
				Latitude 3	6.80849	Longitud	e <u>-107.45264</u>					
	,			NAT	TURE	OF REL	EASE					
Type of Rele		iced Fluids				Volume of		nown		Recovered		cubic yards
Source of Re	lease Belov	v Grade Tai	ık			Date and F Unknown	lour of Occurren	ce		Hour of Dis er 19, 2013	covery	
Was Immedia	ate Notice Gi	ven?				If YES, To	Whom?		Septemb	19, 2013		
			Yes [] No 🔯 Not R	equired							
By Whom?						Date and I-						
Was a Water	course Reach		Yes 🖾 1	No		If YES, Vo	olume Impacting					
If a Watercou	ırse was Impa	acted, Descri	be Fully.	*		L				DIV DIST	3	
N/A								اھ	rons.	DIA DIO		
								(Q)	PAG	- 201A		
Describe Cau	ise of Probler	n and Remed	dial Actio	n Taken.*					MAL	In		
Below Grad	e Tank Closi	ure Activitie	es .						· ·			
Describe Are												
				ove regulatory st								
				vas transported des were below								
				er action is requi						actines for s	temeu.	
-				-								
I hereby certi	fy that the in	formation gi	ven above	is true and comp	lete to th	ne best of my	knowledge and	ındersta	nd that purs	uant to NM	OCD rı	ules and
regulations a	II operators a	re required to	report ar	nd/or file certain i	elease n	otifications a	nd perform corre	ctive act	tions for rel	eases which	may en	ndanger
public health	or the enviro	nment. The	acceptano	ce of a C-141 report investigate and r	ort by the	e NMOCD m	arked as "Final F	leport" (does not reli	eve the ope	rator of	liability
				otance of a C-141								
federal, state,	or local laws	s and/or regu	lations.									
		*,					OIL CON	SERV	ATION	DIVISIO	Μ	
-,	Al	Las	900		-				1	l	/	
Signature:		1	1.			Approved by	Environmental S	Inecialis	t. / mer	1. 11	, ~	-
						\	Environmentare	pecians		74		\ /
Printed Name	e: Crystal Ta	atoya		 		у	0//			\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
Title: Field	Environmen	tal Specialis	t			Approval Dat	te: 4/4/14	4	Expiration	Date:		
E-mail Addre	ess: crystal.ta	foya@conoc	ophillips.	com		Conditions of Approval:			Attoched			
				· -					Attached			
Date: 1/7/20 * Attach Addir		Phone: (5		0837		1 6000	1110					
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AES V

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

December 19, 2013

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-04
5525 Hwy 64
Farmington, New Mexico 87401

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

RE: Below Grade Tank Closure, Release Assessment and Final Excavation Report

San Juan 30-6 #44

Rio Arriba County, New Mexico

Dear Ms. Hunter:

On September 19, October 18, and October 22, 2013, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, an initial release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 30-6 #44, located in Rio Arriba County, New Mexico. The historic release was discovered during a facility reset. An initial release assessment was completed on September 19, 2013. The final excavation was completed by CoP contractors while AES was on location on October 22, 2013.

1.0 Site Information

1.1 Location

Location – SE¼ SW¼, Section 15, T30N, R6W, Rio Arriba County, New Mexico Well Head Latitude/Longitude – N36.80862 and W107.45311, respectively Release Location Latitude/Longitude – N36.80875 and W107.45288, respectively Land Jurisdiction – Bureau of Land Management

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, September 2013

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD Guidelines for Remediation of Leaks, Spills,

and Releases (August 1993) prior to site work. The location was given a ranking score of 10 based on the following factors:

- Depth to Groundwater: A cathodic protection report form dated May 1991 reported the depth to groundwater at 280 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The location is not within a wellhead protection area.
 (0 points)
- Distance to Surface Water Body: An unnamed wash which discharges to the wash in La Jara Canyon is located approximately 620 feet to the southeast of the location. (10 points)

1.3 Assessment

AES was initially contacted by Jess Henson, CoP representative, on September 19, 2013, for BGT closure sampling, and on the same day, Heather Woods and Lavina Lamone of AES traveled to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample. Sample locations are included on Figure 2.

Following BGT closure activities on September 19, 2013, 16 soil samples were collected from 7 test holes (TH-1 through TH-7) in and around the release area. Based on the field screening results, AES recommended further excavation of the release area. Sample locations are presented on Figure 3.

On October 18, 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. Additional excavation of the west wall continued on October 22, 2013, with the collection of SC-6 and SC-7. The area of the final excavation was approximately 34 feet by 36 feet by 8.5 to 10 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

On September 19, 2013, during BGT closure sampling, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (BGT SC-1) from below the BGT. Surface soil samples were collected from the former

BGT for field screening of volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chlorides.

A total of 16 soil samples from TH-1 through TH-7 and 7 composite samples (SC-1 through SC-7) were collected for field screening during the release and excavation assessments. All soil samples were field screened for VOCs and selected samples were also analyzed for TPH. One composite sample (SC-3) collected during the excavation assessment was 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 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.

2.1.3 Chlorides

Soil sample BGT SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The soil sample collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil sample SC-3 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8260B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field Screening and Laboratory Analytical Results

On September 19, 2013, BGT closure field screening results for VOCs via OVM ranged from 0.0 ppm in S-1 up to 3,805 ppm in S-5. Field TPH concentrations ranged from 52.3 mg/kg in S-2 to greater than 2,500 mg/kg in S-4 and S-5. The field chloride concentration in BGT SC-1 was reported at 40 mg/kg.

On September 19, 2013, initial assessment field screening results for VOCs via OVM ranged from 0.0 ppm (TH-3, TH-4, TH-5, and TH-7) up to 2,780 ppm (TH-1). Field TPH concentrations ranged from 60.4 mg/kg in TH-4 up to 252 mg/kg in TH-1.

On October 18 and October 22, 2013, final excavation field screening results for VOCs via OVM ranged from 0.0 ppm in SC-1 and SC-4 up to 3,016 ppm in SC-3. Field TPH concentrations ranged from 29.2 mg/kg in SC-1 up to 1,830 mg/kg in SC-3. Results are included below in Table 1 and on Figures 2 through 4. The AES field screening reports are attached.

Table 1. Field Screening VOCs, TPH, and Chloride Results
San Juan 30-6 #44
BGT Closure, Initial Release Assessment, and Final Excavation
September and October 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)	Chloride (mg/kg)
Sample 10		tion Level*	100	1,000	250
S-1	9/19/13	0.5	0.0	60.4	NA
S-2	9/19/13	0.5	6.0	52.3	NA
S-3	9/19/13	0.5	367	116	NA
S-4	9/19/13	0.5	3,622	>2,500	NA
S-5	9/19/13	0.5	3,805	>2,500	NA
BGT SC-1	9/19/13	0.5	NA	NA	40
	9/19/13	6	2,780	NA	NA
TH-1	9/19/13	8	1,654	NA	NA
	9/19/13	8.5	1,537	252	NA
	9/19/13	4	691	NA	NA
TH-2	9/19/13	6	192	NA	NA
	9/19/13	8	65.0	NA	NA
TH-3	9/19/13	2.5	0.0	NA	NA

	Sample	VOCs	Field	
Date	Depth	via OVM	TPH	Chloride
Sampled	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)
NMOCD A	ction Level*	100	1,000	250
9/19/13	6	67.6	NA	NA
9/19/13	8	180	89.0	NA ,
9/19/13	5	0.0	60.4	NA
9/19/13	7	76.4	126	NA
9/19/13	4	0.0	NA	NA
9/19/13	6	0.0	NA	NA
9/19/13	8	677	NA	NA
9/19/13	4	0.0	NA	NA
9/19/13	6	0.0	NA	NA
10/18/13	1 to 10.5	0.0	29.2	NA
10/18/13	1 to 10.5	3.0	39.7	NA
10/18/13	1 to 10.5	3,016	1,830	NA
10/18/13	1 to 8.5	0.0	68.6	NA
10/18/13	8.5 to 10.5	28.1	38.4	NA
10/22/13	1 to 10.5	0.2	37.3	NA
10/22/13	1 to 10.5	10.2	35.9	NA
	NMOCD Ad 9/19/13 9/19/13 9/19/13 9/19/13 9/19/13 9/19/13 9/19/13 10/18/13 10/18/13 10/18/13 10/18/13 10/18/13	NMOCD Action Level* 9/19/13 6 9/19/13 8 9/19/13 7 9/19/13 4 9/19/13 8 9/19/13 4 9/19/13 4 9/19/13 6 10/18/13 1 to 10.5 10/18/13 1 to 10.5 10/18/13 1 to 8.5 10/18/13 1 to 8.5 10/18/13 1 to 10.5 10/22/13 1 to 10.5	NMOCD Action Level* 100 9/19/13 6 67.6 9/19/13 8 180 9/19/13 5 0.0 9/19/13 7 76.4 9/19/13 4 0.0 9/19/13 6 0.0 9/19/13 4 0.0 9/19/13 6 0.0 9/19/13 6 0.0 10/18/13 1 to 10.5 0.0 10/18/13 1 to 10.5 3.0 10/18/13 1 to 10.5 3,016 10/18/13 1 to 8.5 0.0 10/18/13 1 to 10.5 28.1 10/22/13 1 to 10.5 0.2	NMOCD Action Level* 100 1,000 9/19/13 6 67.6 NA 9/19/13 8 180 89.0 9/19/13 5 0.0 60.4 9/19/13 7 76.4 126 9/19/13 4 0.0 NA 9/19/13 6 0.0 NA 9/19/13 4 0.0 NA 9/19/13 6 0.0 NA 9/19/13 6 0.0 NA 10/18/13 1 to 10.5 0.0 NA 10/18/13 1 to 10.5 3.0 39.7 10/18/13 1 to 10.5 3,016 1,830 10/18/13 1 to 8.5 0.0 68.6 10/18/13 1 to 10.5 28.1 38.4 10/22/13 1 to 10.5 0.2 37.3

NA - Not Analyzed

Laboratory analyses for SC-3 were used to confirm field screening results during excavation activities. Benzene concentrations were reported below the laboratory detection limit of 0.12 mg/kg, and the total BTEX concentration was reported at 42.5 mg/kg. TPH concentrations as GRO and DRO were reported at 1,400 mg/kg and 980 mg/kg, respectively. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

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

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 30-6 #44 Final Excavation, October 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)
NMOCD Action Level*			10	50	1,	000
SC-3	10/18/13	1 to 10.5	<0.12	42.5	1,400	980

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

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. On September 19, 2013, field VOCs and TPH concentrations above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in S-3, S-4, and S-5. The highest VOC concentration was reported in S-5 with 3,805 ppm, and the highest TPH concentrations were reported in S-4 and S-5, each with greater than 2,500 mg/kg. The chloride concentration was reported below the NMOCD action level of 250 mg/kg. Based on field results for TPH, a release was confirmed at the San Juan 30-6 #44.

Also on September 19, 2013, AES conducted an initial release assessment of petroleum contaminated soils associated with a historical release discovered during facility reset activities at the location. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10. Initial assessment field screening results above the NMOCD action level of 100 ppm VOCs were reported in TH-1 through TH-3, and TH-6. Based on the field screening results, AES recommended further excavation of the release area.

On October 18, 2013, final assessment of the excavation area was initiated. Field screening results of the excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels for three sidewalls and base of the excavation. The west wall reported VOCs and TPH above the applicable NMOCD action levels with 3,016 ppm and 1,830 mg/kg, respectively. Laboratory results for SC-3 exceeded the NMOCD action levels for TPH as GRO/DRO with 2,380 mg/kg. Following additional excavation of the west wall, field screening of the additional excavation extents on October 22, 2013, showed that VOCs and TPH concentrations in SC-6 and SC-7 were below applicable NMOCD action levels.

Based on the final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 30-6 #44, VOCs, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final 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,

David J. Reese

Environmental Scientist

Dail g Rem

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, September 2013

Figure 3. Initial Assessment Sample Locations and Results, September 2013

Figure 4. Final Excavation Sample Locations and Results, October 2013

AES Field Screening Report 091913 BGT

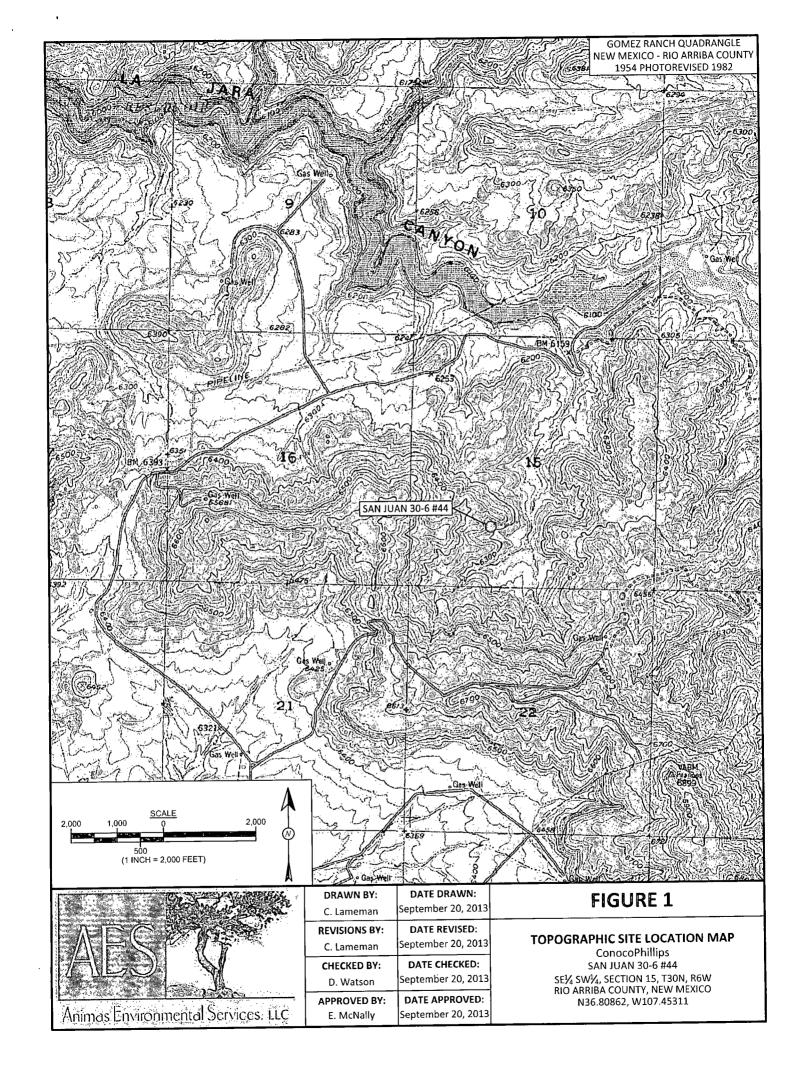
AES Field Screening Report 091913 Assessment

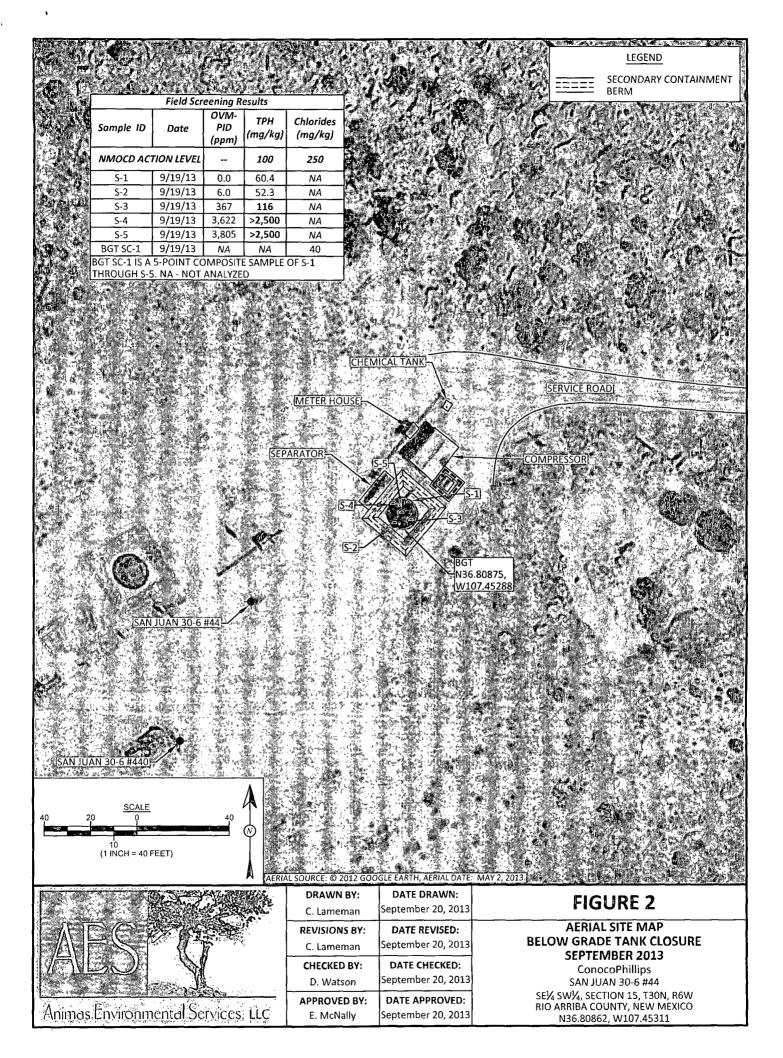
AES Field Screening Report 101813

AES Field Screening Report 102213

Hall Laboratory Analytical Report 1310947

 $R:\Animas\ 2000\Dropbox\2013\ Projects\ConocoPhillips\SJ\ 30-6\ \#44\San\ Juan\ 30-6\ \#44\ Release\ and\ Final\ Excavation\ Report\ 121913.docx$





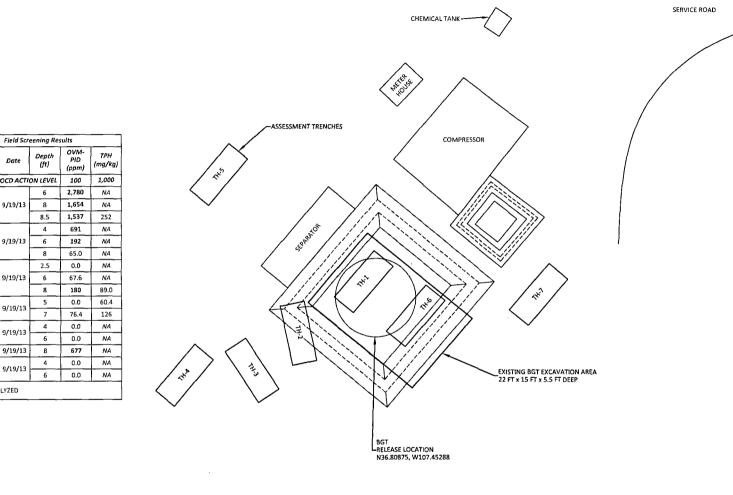


FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS SEPTEMBER 2013

ConocoPhillips SAN JUAN 30-6 #44 SE¼ SW¼, SECTION 15, T30N, R6W RIO ARRIBA COUNTY, NEW MEXICO N36.80862, W107.45311



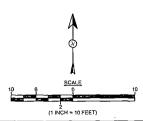
Animas Environmental Services: LLC

1 -	RAWN BY: Lameman	DATE DRAWN: September 20, 2013
i i	VISIONS BY: . Lameman	DATE REVISED: October 30, 2013
	HECKED BY: D. Watson	DATE CHECKED: October 30, 2013
4	PROVED BY: E. McNally	DATE APPROVED: October 30, 2013

LEGEND

SAMPLE LOCATIONS

==== SECONDARY CONTAINMENT BERM



SAN JUAN 30-6 #44 WELLHEAD

Depth

(ft) NMOCD ACTION LEVEL

8

8.5

4

2.5

4

Date

9/19/13

9/19/13

9/19/13

9/19/13

9/19/13

9/19/13

9/19/13

Sample ID

TH-1

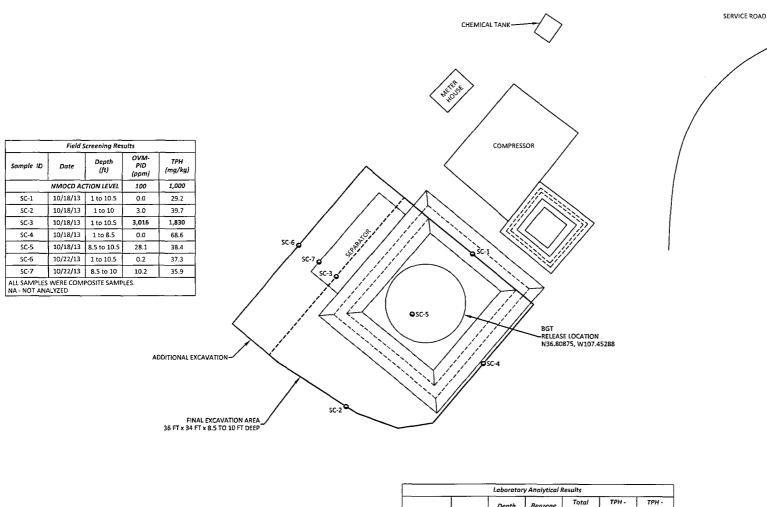
7H-2

TH-3

TH-6

TH-7

NA - NOT ANALYZED



SAN JUAN 30-6 #44 WELLHEAD

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS OCTOBER 2013

CONOCOPHILIPS
SAN JUAN 30-6 #44
SE', SW',, SECTION 15, T30N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.80862, W107.45311



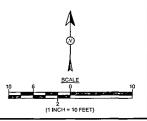
Animas Environmental Services: LLC

		4 2 4 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Γ	DRAWN BY:	DATE DRAWN:
-	C. Lameman	November 6, 2013
r	REVISIONS BY:	DATE REVISED:
- 1	C. Lameman	November 6, 2013
	CHECKED BY:	DATE CHECKED:
-	D. Watson	November 6, 2013
	APPROVED BY:	DATE APPROVED:
ı	E. McNally	November 6, 2013

LEGEND

SAMPLE LOCATIONS

SECONDARY CONTAINMENT BERM



		Laborator	y Analytical I	Results		
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOC	D ACTION LE	/EL	10	50	1,0	000
SC-3	10/18/13	1 to 10.5	<0.12	42.5	1,400	980
I I SAMPLES V	VEDE ANALYZ	ED DED EDA	METHOD 926	OR AND OUT	ED.	

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 30-6 #44

Date: 9/19/2013

Matrix: Soil



Animas Divironmental Services arc

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials	
S-1	9/19/2013	13:20	East	0.0	NA	14:43	60.4	20.0	1_1_	HMW	
S-2	9/19/2013	13:22	South	6.0	NA	14:47	52.3	20.0	1	HMW	
S-3	9/19/2013	13:24	West	367	NA	14:51	116	20.0	1_	HMW	
S-4	9/19/2013	13:26	North	3,622	NA	14:56	>2,500	20.0	1	HMW	
S-5	9/19/2013	13:27	Center	3,805	NA	15:01	>2,500	20.0	1_	HMW	
SC-1	9/19/2013	13:30	Composite	NA	40	Not Analyzed for TPH.					

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Heather M. Woods

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

ND

Not Detected at the Reporting Limit

PQL

DF

NA

Practical Quantitation Limit

Dilution Factor

Not Analyzed

*Field TPH concentrations recorded may be below PQL.

Report Finalized: 9/19/13

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 30-6 #44

Date: 9/19/2013

Matrix: Soil



www.animasenvironmentalicom

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials		
TH-1 @ 6'	9/19/2013	15:14	2,780		Not A	nalyzed for TP	Н			
TH-1 @ 8'	9/19/2013	15:16	1,654		Not A	nalyzed for TP	Н			
TH-1 @ 8.5'	9/19/2013	15:18	1,537	252	15:48	40.0	1	HMW		
TH-2 @ 4'	9/19/2013	15:22	691		Not A	nalyzed for TP	Н			
TH-2 @ 6'	9/19/2013	_ 15:24	192	Not Analyzed for TPH						
TH-2@ 8'	9/19/2013	15:26	65.0		Not A	nalyzed for TP	Н			
TH-3 @ 2.5'	9/19/2013	15:30	0.0		Not A	nalyzed for TP	Н			
TH-3 @ 6'	9/19/2013	15:32	67.6		Not A	nalyzed for TP.	Н			
TH-3 @ 8'	9/19/2013	15:34	180	89.0	17:22	20.0	1	HMW		
TH-4 @ 5'	9/19/2013	15:50	0.0	60.4	16:50	20.0	1_	HMW		
TH-4 @ 7'	9/19/2013	15:52	76.4	126 16:54 20.0 1						
TH-5 @ 4'	9/19/2013	16:00	0.0	Not Analyzed for TPH						
TH-5 @ 6'	9/19/2013	16:04	0.0		Not A	nalyzed for TP	Н			

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials			
TH-6 @ 8'	9/19/2013	16:10	677		Not A	nalyzed for TPI	4				
TH-7 @ 4'	9/19/2013	16:15	0.0	Not Analyzed for TPH							
TH-7 @ 6'	9/19/2013	16:17	0.0	Not Analyzed for TPH							

DF

Dilution Factor

NA

Not Analyzed

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitation Limit

Analyst:

Deather M Woods

*Field TPH concentrations recorded may be below PQL.

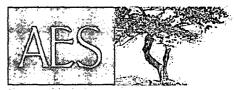
AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 30-6 #44

Date: 10/18/2013

Matrix: Soil



Animas Environmental Services, LLC

Stephanicollyn

www.animasenvironmental.com

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

> Durango, Golorado 970-403-3084

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	10/18/2013	10:41	North Wall	0.0	29.2	11:36	20.0	1	SL
SC-2	10/18/2013	10:44	South Wall	3.0	39.7	11:38	20.0	1	SL
SC-3	10/18/2013	11:50	West Wall	3,016	1,830	12:10	20.0	1	SL
SC-4	10/18/2013	11:52	East Wall	0.0	68.6	11:42	20.0	1	SL
SC-5	10/18/2013	10:51	Base	28.1	38.4	11:44	20.0	1	SL

DF Dilution Factor
NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Analyst:

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 30-6 #44

Date: 10/22/2013

Matrix: Soil



Animas Environmental Services Lic

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	10/22/2013	10:30	West Wall	0.2	37.3	10:58	20.0	1	DAW
SC-7	10/22/2013	10:32	Composite N-S-B	10.2	35.9	10:56	20.0	1	DAW

DF

Dilution Factor

NΑ

Not Analyzed

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Analyst:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 23, 2013

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

FAX

RE: CoP San Juan 30-6 #44

OrderNo.: 1310947

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/19/2013 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1310947

Date Reported: 10/23/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: CoP San Juan 30-6 #44

Collection Date: 10/18/2013 11:50:00 AM

Lab ID: 1310947-001

Received Date: 10/19/2013 11:00:00 AM

Analyses	Result	Result RL Qual Units			Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	980	10	mg/Kg	1	10/21/2013 12:14:55	PM 9920
Surr: DNOP	109	66-131	%REC	1	10/21/2013 12:14:55	PM 9920
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analy	st: RAA
Benzene	ND	0.12	mg/Kg	5	10/21/2013 12:10:03	PM R14226
Toluene	0.91	0.25	mg/Kg	5	10/21/2013 12:10:03	PM R14226
Ethylbenzene	1.6	0.25	mg/Kg	5	10/21/2013 12:10:03	PM R14226
Xylenes, Total	40	5.0	mg/Kg	50	10/21/2013 1:07:31 F	M R14226
Surr: 1,2-Dichloroethane-d4	99.4	70-130	%REC	5	10/21/2013 12:10:03	PM R14226
Surr: 4-Bromofluorobenzene	82.4	70-130	%REC	5	10/21/2013 12:10:03	PM R14226
Surr: Dibromofluoromethane	100	70-130	%REC	5	10/21/2013 12:10:03	PM R14226
Surr: Toluene-d8	91.2	70-130	%REC	5	10/21/2013 12:10:03	PM R14226
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analy	st: RAA
Gasoline Range Organics (GRO)	1400	250	· mg/Kg	50	10/21/2013 1:07:31 F	M R14226
Surr: BFB	82.0	70-130	%REC	50	10/21/2013 1:07:31 F	PM R14226

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 1 of 5
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310947

23-Oct-13

Client:

Animas Environmental

Project: CoP San Juan 30-6 #44

Sample ID MB-9920 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS Batch ID: 9920 RunNo: 14215

Prep Date: 10/21/2013 Analysis Date: 10/21/2013 SeqNo: 407543 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

131

TestCode: EPA Method 8015D: Diesel Range Organics

 Diesel Range Organics (DRO)
 ND
 10

 Surr: DNOP
 10
 10.00
 103
 66

Sample ID LCS-9920 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 9920 RunNo: 14215 Prep Date: 10/21/2013 Analysis Date: 10/21/2013 SeqNo: 407544 Units: mg/Kg %RPD **RPDLimit** Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Analyte Qual Diesel Range Organics (DRO) 47 10 50.00 0 93.2 77.1 128 Surr: DNOP 131 4.8 5.000 96.0 66

Sample ID MB-9947 TestCode: EPA Method 8015D: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 9947 RunNo: 14241 Prep Date: 10/22/2013 Analysis Date: 10/22/2013 SeqNo: 408483 Units: %REC Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Surr: DNOP
 9.5
 10.00
 95.2
 66
 131

SampType: LCS

 Client ID:
 LCSS
 Batch ID:
 9947
 RunNo:
 14241

 Prep Date:
 10/22/2013
 Analysis Date:
 10/22/2013
 SeqNo:
 408493
 Units:
 %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Surr: DNOP 4.5 5.000 89.6 66 131

Qualifiers:

Sample ID LCS-9947

* Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310947

23-Oct-13

Client: Animas Environmental Project: CoP San Juan 30-6 #44

Sample ID mb-9887	SampT	ype: MI	BLK	8260B: Vola	tiles Shor	t List				
Client ID: PBS	Batch	Batch ID: 9887 RunNo: 14226								
Prep Date: 10/17/2013	Analysis D	ate: 1	0/21/2013	SeqNo: 408430 U			Units: %RE			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.9	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.0	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.45		0.5000		89.5	70	130			
Sample ID LCS-9887	SampT	SampType: LCS TestCode: EPA Method 8260B; Volatiles Short List								

Sample ID LCS-9887	SampT	ype: LC	cs	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: LCSS	RunNo: 14226													
Prep Date: 10/17/2013	Analysis Date: 10/21/2013			SeqNo: 408436			Units: %RE							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.8	70	130							
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130							
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130							
Surr: Toluene-d8	0.45		0.5000		90.5	70	130							

Sample ID mb-9887	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS	Batc	h ID: R1	4226	F	RunNo: 1	4226								
Prep Date:	Analysis Date: 10/21/2013		S	SeqNo: 4	08451	Units: mg/h								
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: 1,2-Dichloroethane-d4	0.50		0.5000		99.9	70	130							
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.0	70	130							
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130							
Surr: Toluene-d8	0.45		0.5000		89.5	70	130							

Sample ID Ics-9887 b	Sampì	SampType: LCS TestCode: EPA Method							8260B: Volatiles Short List								
Client ID: LCSS	Batcl	h ID: R1	4226	RunNo: 14226													
Prep Date:	Analysis D	Date: 10)/21/2013	SeqNo: 408452 U			Units: mg/Kg										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual							
Benzene	1.0	0.050	1.000	0	101	70	130										
Toluene	0.94	0.050	1.000	0	94.0	69.9	139										
Ethylbenzene	0.99	0.050	1.000	0	98.9	70	130										
Xylenes, Total	3.1	0.10	3.000	0	102	70	130										
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.8	70	130										
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130										

Qualifiers:

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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310947

23-Oct-13

Client:

Animas Environmental

Project:

CoP San Juan 30-6 #44

Sample ID Ics-9887 b

SampType: LCS

TestCode: EPA Method 8260B: Volatiles Short List

Client ID: LCSS

Surr: Toluene-d8

Surr: Dibromofluoromethane

Batch ID: R14226

RunNo: 14226

Analysis Date: 10/21/2013

%REC

SeqNo: 408452

LowLimit

Units: mg/Kg

Analyte

Prep Date:

Result **PQL** 0.52

SPK value SPK Ref Val 0.5000

104

70

%RPD HighLimit **RPDLimit** Qual 130

0.45

0.5000

90.5

70

130

Qualifiers:

Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit O

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit RL

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

1310947

WO#:

23-Oct-13

Client:

Animas Environmental

Project:

CoP San Juan 30-6 #44

Sample ID mb-9887

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID:

PBS

Batch ID: 9887

RunNo: 14226

Prep Date:

PQL

10/17/2013

Analysis Date: 10/21/2013

SeqNo: 408368

Units: %REC

Analyte

SPK value SPK Ref Val

%REC

HighLimit

%RPD

Qual

Surr: BFB

460

500.0

92.0 TestCode: EPA Method 8015D Mod: Gasoline Range

130

RPDLimit

Sample ID LCS-9887 Client ID:

LCSS

SampType: LCS Batch ID: 9887

Prep Date:

RunNo: 14226 SeqNo: 408370

Units: %REC

Analyte

10/17/2013

Analysis Date: 10/21/2013

HighLimit

SPK value SPK Ref Val %REC 500.0

89.9

LowLimit

%RPD

RPDLimit Qual

Surr: BFB

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

130

Sample ID mb-9887 Client ID:

Prep Date:

PBS

460

Result

450

Batch ID: R14226

Analysis Date: 10/21/2013

RunNo: 14226 SeqNo: 408412

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO) Result ND **PQL** SPK value SPK Ref Val 5.0

500.0

%REC 92.0

70

LowLimit

%RPD

RPDLimit Qual

Surr: BFB Sample ID LCS-9887

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

130

Client ID:

Prep Date:

LCSS

Gasoline Range Organics (GRO)

Batch ID: R14226 Analysis Date: 10/21/2013 RunNo: 14226

Units: mg/Kg

Qual

Analyte

PQL

SPK value SPK Ref Val 0

%REC LowLimit 94.8

SeqNo: 408413

80

HighLimit 120 %RPD **RPDLimit**

Surr: BFB

24 5.0 450

25.00 500.0

89.9

70

130

- Qualifiers: Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits

Analyte detected below quantitation limits

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only. р
- RLReporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

EL: 303-343-3973 FAX: 303-343-4107
Website: www.hallenvironmental.com

Client Nam	e: Animas Envi	ronmental	Work (Order Numi	oer: 13109	947			RcptNo:	1
Received by	y/date:	10/21	413							
Logged By:	Anne Thorr	10	- 10/2/// 10/19/20	ろ 13 11:00:0	MA 0		Ann I	A-	_	{
Completed	By: Anne Thorr	l o	10/21/20	13			arne 2	H.	_	
Reviewed E	14: A- 10	121113								
Chain of	Custody	•								
1. Custody	y seals intact on sa	mple bottles?			Yes		No		Not Present 🗹	
2. Is Chair	of Custody compl	ete?			Yes	\checkmark	No		Not Present	
3. How wa	s the sample delive	ered?			Cour	ier				
<u>Log In</u>							•			
4. Was ar	attempt made to c	cool the samp	les?		Yes	V	No		na 🗆	
5. Were a	ll samples received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No [Na 🗆	
6. Sample	(s) in proper conta	ner(s)?			Yes	V	No			
7. Sufficier	nt sample volume f	est(s)?		Yes	V	No				
8. Are sam	3. Are samples (except VOA and ONG) properly preserved?						No			
9. Was pre	eservative added to	bottles?			Yes		No	\checkmark	na 🗆	
10.VOA via	ils have zero heads	space?			Yes		No		No VOA Vials 🗹	
11. Were a	ny sample containe	ers received b	roken?		Yes		No		# of preserved	· · · · · · · · · · · · · · · · · · ·
40 5		al a tata a t			V		M-		bottles checked	
_	aperwork match bol screpancies on cha)		Yes	Y	No	L_J	for pH: (<2 c	or >12 unless noted)
	rices correctly iden	-			Yes	\checkmark	No		Adjusted? _	
14. Is it clea	ır what analyses w	ere requested	?		Yes	V	No			
	holding times able				Yes	$ \mathbf{Z} $	No		Checked by:	
(II IIO, II	otify customer for a	uulonzauon.)								
Special H	andling (if app	licable)								
16. Was clie	ent notified of all di	screpancies v	vith this order?		Yes		No	✓	NA 🗆	
Pe	erson Notified:			Date] .
B	/ Whom:			Via:	☐ eMa	il [Phone 🔲	Fax	☐ In Person	
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17. Additio	nal remarks:									
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C	Chain-of-Custody Record			Turn-Around	Time:		<u> </u>	HALL ENVIRONMENT							'A I							
Client:	VINK		invironmental	□ Standard Project Name	Rush	Bam	eday				A	N	AL	YS	JIS	5 L	AI	30			R	f
Mailing	Address	eXVI (0	E Comanche	COP Sa	n Juan	30-6	#44	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
Faxx	ningh	on N	M 87401 4 2281	Project #:						l. 50	5-34	5-39	75	F	ax :	505-	345-	410	7			X 91
email o		<u>ي د_ ر</u>	7 2201	Project Mana	ger:				200	Contract of the last			2 2 %	* 1947.	-	250	ABOUT ME		3.54 FE.	A 347 A	2 (1 E 2 K	
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□ EDD	(Type)			Sample Tem	oeratuire:# I	<i>3/20</i>			18	9	por 7	bor	10 0	letal	S	icide	(A)	۲			1	\ <u>\</u> \
Date:	Time	Matrix	Sample Request ID		Preservative Type		ALENOS	BTEX + WEEF	BTEX + MTBE	TPH 8015B (GROV DRO) MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
1-18-13	1150	Soil	SC-3	meatt late	, Neo H	S (2) (3) (3)	-001	X	_	X								-		_		1
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Date:	Time:	Relinquish	ed by:	Received by: Date Time F Mustubaeter 10/18/13 1640		Ren	nark	s: a	bu	Lt	D (Cov	<u></u>	0	he	Ole	ps					
Date:	Time:	Relinquish	ed by:	Received by:	M	Date	Time															
		<u> </u>	mitted to Hall Environmental may be sub-	contracted to other a	ogedited laboratoria	es. This serve		possil	bility.	Any su	b-cont	racted	data	will be	clean	y nota	ted on	the a	nalytic:	al report	ì.	