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

Form C-141 Revised August 8, 2011

.33

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

				OF	PERAT	ГOR		M Initi	al Report	X	Final R	Report
		Phillips Compa				ndsay Dumas				/		
		Farmington, N	M			No.(505) 599-4	089					
Facility Nar	ne: San Juan 2	28-7 129F		Faci	ility Typ	e: Gas						
Surface Ow	ner: State		Mineral Owne	er: 0166	608			API No	0.30039269	66		
			LOCATI	ON O	F REI	LEASE						
Unit Letter	Section Tov	wnship Range		rth/Sout		Feet from the	East/V	Vest Line	County			
A	02	27N 07W	770'	FNI	L	545'	1	FEL	Rio Arrib	a		
			Latitude 36.6080	0611 1	Longitu	de <u>-107.53521</u>						
			NATUR	E OF	REL	EASE						
Type of Rele					olume of				Recovered	0		
Source of Re	ease Producti	ion Tank			ate and H nknown	Iour of Occurren	ce		Hour of Dise 5 11:00 AM	covery	1	
Was Immedia	nte Notice Given	?			YES, To	Whom?		1/1//201	5 11:00 AM			
			☐ No ☐ Not Requir			h (OCD)						
By Whom?	Lindsay Dum	nas		D	ate and H	lour 1/17/2015	2:30 pm					
Was a Water	Was a Watercourse Reached? ☐ Yes ☒ No					olume Impacting	the Wate	ercourse.				
If a Watercou	irse was Impacte	ed, Describe Full	y.*									
Describe Are Excavation transported	a Affected and C was 50' x 45' I from Aztec N te base exceed	Cleanup Action T x 14' Deep. 1 Machine Co., a	was a spill. Investiga Taken.* 124 c/yds of soil was and placed in the exc ction levels. NMOCE	transp avation	orted to	IEI Land Fai	lts were	below th	ne regulato	ry sta	ndards	
regulations all public health should their of or the environ federal, state, Signature: Printed Name Title: Field	operators are report the environment. In addition focal laws and the Lindsay Dun	equired to report ent. The accepta failed to adequate on, NMOCD accord/or regulations. Specialist	mers	se notificy the NM diate court does in App	cations as MOCD m ntaminati not reliev	nd perform correarked as "Final Foot that pose a the ethe operator of OIL CON Environmental Stee:	ctive act Report" d reat to gr respons ISERV	ions for relations for relatio	leases which lieve the oper or, surface was compliance w	may entrator of the track of th	ndanger f liability ıman heal	,
E-mail Addre	ess: Lindsay.Du	mas@conocoph	illips.com	Con	ditions o	f Approval:			Attached			
Date: 1/26/2			Phone: (505) 599-4089									
Attach Addi	tional Sheets If	Necessary 7	twes 150	721	480	91						

Animas Environmental Services, LLC



May 4, 2015

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
Office 214-07
5525 Hwy 64
Farmington, New Mexico 87401

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

RE: Release Assessment and Final Excavation Report

San Juan 28-7 #129F

Rio Arriba County, New Mexico

Dear Ms. Dumas:

On January 17, 21, and 26, 2015, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 28-7 #129F, located in Rio Arriba County, New Mexico. The release consisted of approximately 190 barrels (bbls) of produced water and condensate and was the result of a corrosion hole on the bottom of the condensate tank at the location. The initial assessment was completed by AES on January 17, 2015, and the final excavation was completed by CoP contractors prior to AES' arrival at the location on January 26, 2015.

1.0 Site Information

1.1 Location

Site Name – San Juan 28-7 #129F

Location – NE¼ NE¾, Section 2, T27N, R7W, Rio Arriba County, New Mexico

Wellhead Lat/Long – N36.60809 and W107.53582

Release Location Lat/Long – N36.60831 and W107.53574

Land Jurisdiction – State of New Mexico

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, January 2015

604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 280 Durango, CO 970-403-3084

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 release was given a ranking score of 50 based on the following factors:

- Depth to Groundwater: Based on elevation, topographic interpretation, and visual reconnaissance, depth to groundwater is interpreted to be less than 50 feet below ground surface (bgs). (20 points)
- Wellhead Protection Area: A livestock well is located 275 feet east-northeast of the location. (20 points)
- Distance to Surface Water Body: A wash and intermittent pond are located approximately 330 feet to north and 345 feet northeast of the location, respectively, and discharge to Carrizo Canyon Creek. (10 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of CoP on January 9, 2015, and on January 16, 2015, AES personnel completed the release assessment field work. The assessment included collection and field sampling of three soil samples from one soil boring in the immediate vicinity of the release. The soil boring was terminated at 9.5 feet on sandstone. All soil samples were saturated with petroleum hydrocarbons. Based on field sampling results, AES recommended excavation of the release area. The sample location is shown on Figure 3.

On January 21, 2015, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples (SC-1 through SC-5) from the walls and base of the excavation. On January 26, 2015, at the request of Cory Smith - NMOCD representative, AES personnel collected three additional confirmation soil samples (SC-5 through SC-7) from the base of the excavation and from a one foot interval directly above the sandstone. The area of the final excavation measured approximately 48 feet by 39 feet by 10 feet in depth. The depth of the excavation was limited due to a confining sandstone unit around 12 feet bgs. On January 28, 2015, potassium permanganate was applied to the base of the excavation. No additional sampling was conducted. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of three soil samples from one boring (SB-1) and eight composite samples (SC-1 through SC-7 and SC-5 duplicate) 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). All composite samples (SC-1 through SC-7) collected during the excavation clearance were submitted for confirmation laboratory analysis, with the exception of sample SC-5 collected on January 21, 2015.

2.1 Field Sampling

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. All soil samples were laboratory analyzed for:

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

2.3 Field and Laboratory Analytical Results

On January 16, 2015, initial assessment field screening results for VOCs via OVM showed concentrations in SB-1 ranging from 2,676 ppm to 3,777 ppm. Because soils were visibly saturated, no TPH analyses were run.

On January 21 and 26, 2015, final excavation field screening results for VOCs via OVM ranged from 21.9 ppm in SC-1 up to 2,550 ppm in SC-5. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-1 through SC-4 up to greater than 2,500 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Soil Field Sampling VOCs and TPH Results
San Juan 28-7 #129F Initial Release Assessment and Final Excavation,
January 2015

		Sample Depth	VOCs via OVM	TPH 418.1
Sample ID	Date Sampled	(ft bgs)	(ppm)	(mg/kg)
NN	10CD Action Level*		100	100
		1	2,676	NA
SB-1	1/16/15	5	3,674	NA
		8	3,777	NA
SC-1	1/21/15	1 to 10	21.9	<20.0
SC-2	1/21/15	1 to 10	27.6	<20.0
SC-3	1/21/15	1 to 10	104	<20.0
SC-4	1/21/15	1 to 10	65.0	<20.0
SC-5	1/21/15	10	2,550	>2,500
SC-5	1/26/15	10	NA	NA
SC-6	1/26/15	1 to 12	746	27.2
SC-7	1/26/15	1 to 12	36.2	23.6

NA - not analyzed

Laboratory analyses for SC-1 through SC-7 were used to confirm field sampling results from the final excavation limits. Benzene and total BTEX concentrations in all samples were reported below laboratory detection limits, except SC-5 with 11 mg/kg benzene and 979 mg/kg total BTEX. TPH concentrations as GRO/DRO in SC-1 through SC-7 were also reported below laboratory detection limits in all samples, except SC-5 (8,700 mg/kg). Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

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

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 28-7 #129F Initial Release Assessment and Final Excavation

		Sample		Total	TPH	TPH
	Date	Depth	Benzene	BTEX	GRO	DRO
Sample ID	Sampled	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMO	NMOCD Action Level*		10	50	1	00
SC-1	1/21/15	1 to 10	< 0.049	<0.246	<4.9	<10
SC-2	1/21/15	1 to 10	<0.049	<0.245	<4.9	<10
SC-3	1/21/15	1 to 10	< 0.049	<0.246	<4.9	<10
SC-4	1/21/15	1 to 10	<0.048	<0.240	<4.8	<9.9
SC-5	1/26/15	10	11	979	6,800	1,900
SC-6	1/26/15	1 to 12	<0.049	<0.246	<4.9	<9.9
SC-7	1/26/15	1 to 12	< 0.049	<0.245	<4.9	<10

^{*}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

On January 16, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with a release of produced water and condensate at the San Juan 28-7 #129F. 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 50.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in SB-1. The highest VOC concentration was reported at 3,777 ppm.

On January 26, 2015, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls and base of the excavation, except for SC-3 (north wall) which had a VOC concentration of 104 ppm and SC-5 (base) which had a VOC concentration of 2,550 ppm. Field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for the final walls of the excavation, but above the action level for the final excavation base, which had a TPH concentration greater than 2,500 mg/kg. Laboratory analytical results reported benzene, total BTEX, and TPH (as GRO/DRO)

Lindsay Dumas San Juan 28-7 #129F Release Assessment and Final Excavation Report May 4, 2015 Page 6

concentrations below NMOCD action levels for the final walls of the excavation, but above the action level for the final excavation base (8,700 mg/kg).

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 28-7 #129F, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for final sidewalls of the excavation. However, the final base of the excavation exceeded applicable NMOCD action levels for benzene, total BTEX, and TPH. The NMOCD gave approval to spray potassium permanganate (Quantum GrowthTM), which was applied to the base of the excavation on January 28, 2015. Backfilling activities took place on February 10, 2015. No further work is recommended.

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

Sincerely,

David J. Reese

Environmental Scientist

Elizabeth V MeNelly

David & Rem

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, January 2015

Figure 3. Initial Assessment Sample Locations and Results, January 2015

Figure 4. Final Excavation Sample Locations and Results, January 2015

AES Field Sampling Report 011615

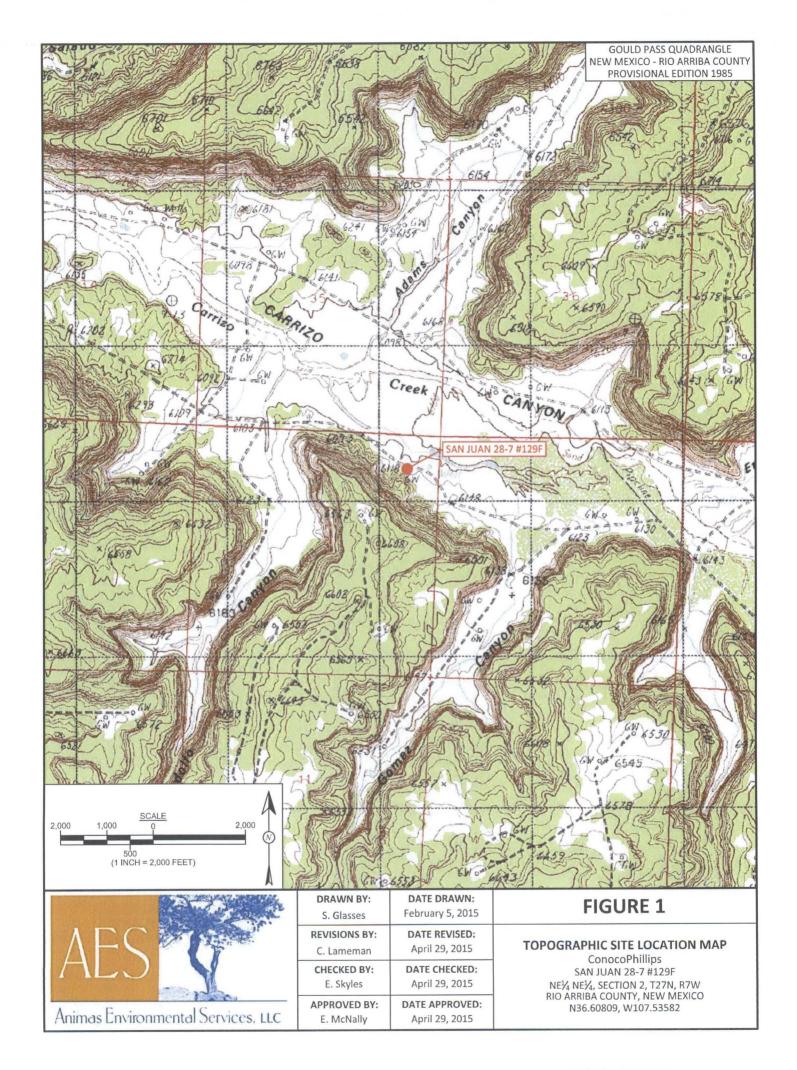
AES Field Sampling Report 012115

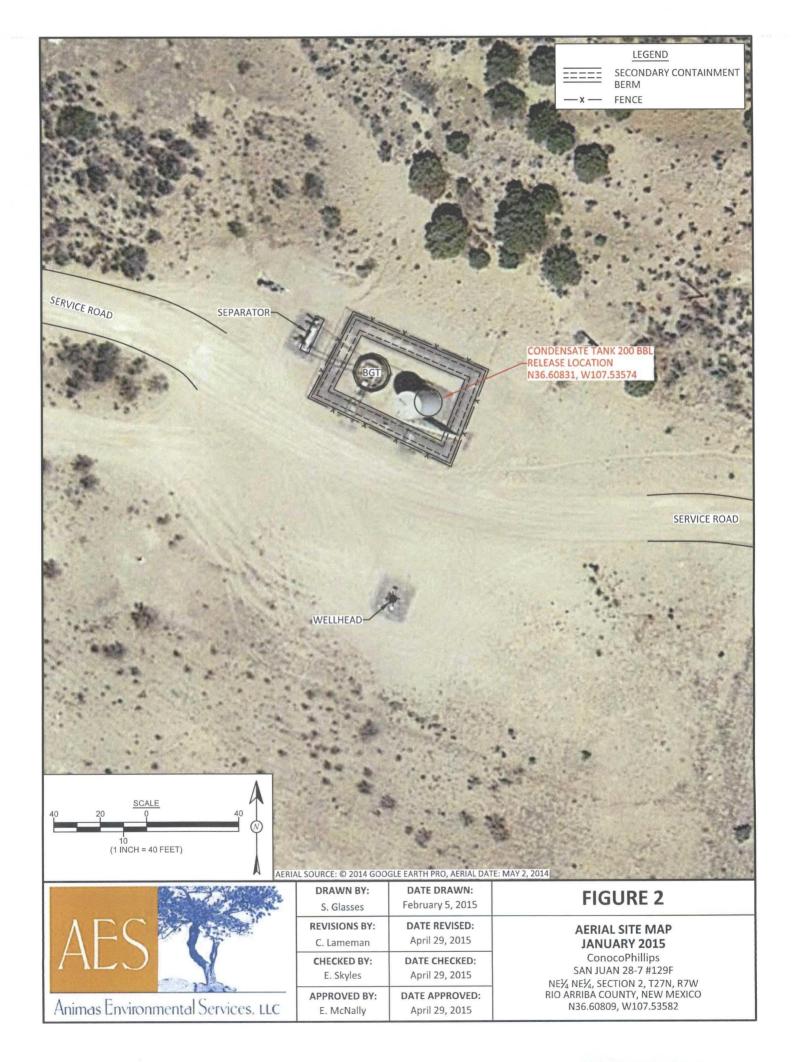
AES Field Sampling Report 012615

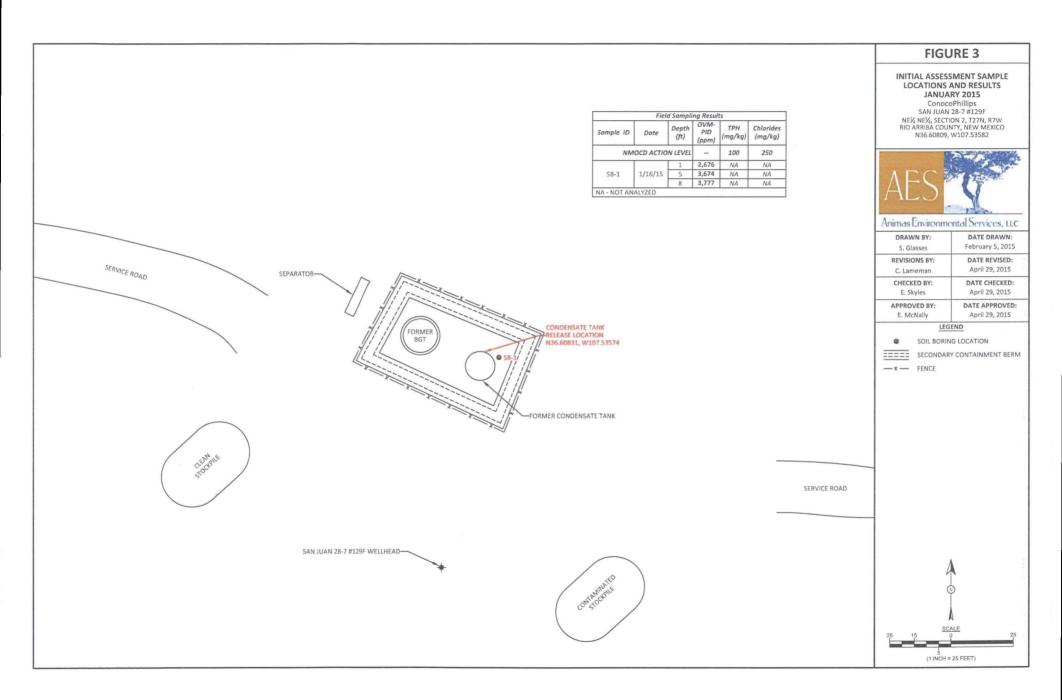
Hall Laboratory Analytical Report 1501775

Hall Laboratory Analytical Report 1501902

R:\Animas 2000\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2015
Projects\ConocoPhillips\SJ 28-7 #129F\San Juan 28-7 #129F Release and Final Excavation Report 050415.docx







Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)
NMOCD AC	TION LEVEL	100	100
SC-1	1/21/15	21.9	<20.0
SC-2	1/21/15	27.6	<20.0
SC-3	1/21/15	104	<20.0
SC-4	1/21/15	65.0	<20.0
SC-5	1/21/15	2,550	>2,500
SC-6	1/26/15	746	27.2
SC-7	1/26/15	36.2	23.6

EXCAVATION AREA
39 FT X 46 FT X 10 FT DEEP

CONDENSATE TANK

RELEASE LOCATION
N36.60831, W107.53574

FORMER CONDENSATE TANK

Sample ID			Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)		
NMOCD ACT	ION LEVEL	10	50	100			
SC-1	1/21/15	<0.049	<0.246	<4.9	<10		
SC-2	1/21/15	< 0.049	< 0.245	<4.9	<10		
SC-3	1/21/15	< 0.049	<0.246	<4.9	<10		
SC-4	1/21/15	<0.048	<0.240	<4.8	<9.9		
SC-5	1/26/15	11	979	6,800	1,900		
SC-6	1/26/15	< 0.049	<0.246	<4.9	<9.9		
SC-7	1/26/15	< 0.049	< 0.245	<4.9	<10		

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS JANUARY 2015

CONOCOPHILIPS

SAN JUAN 28-7 #129F

NE', NEY, SECTION 2, T27N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.60809, W107.53582



Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
S. Glasses	February 5, 2015
REVISIONS BY:	DATE REVISED:
C. Lameman	April 29, 2015
CHECKED BY:	DATE CHECKED:
E. Skyles	April 29, 2015
APPROVED BY:	DATE APPROVED: April 29, 2015

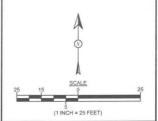
McNally A

SAMPLE LOCATIONS

SECONDARY CONTAINMENT BERM

-x - FENCE

SERVICE ROAD



SAN JUAN 28-7 #129F WELLHEAD

SEPARATOR-

FORMER BGT-

SERVICE ROAD

AES Field Sampling Report



Client: ConocoPhillips

Project Location: San Juan 28-7 #129F

Date: 1/16/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials		
SB-1 @ 1'	1/16/2015	10:20	2,676	,	Not	Analyzed for T	PH			
SB-1 @ 5'	1/16/2015	10:25	3,674	Not Analyzed for TPH						
SB-1 @ 8'	1/16/2015	10:35	3,777		Not	Analyzed for T	PH			

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Corwin Lameman

AES Field Sampling Report



Client: ConocoPhillips

Project Location: San Juan 28-7 #129F

Date: 1/21/2015

Matrix: Soil

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	1/21/2015	9:30	North Wall	21.9	13.6	10:39	20.0	1	SAH
SC-2	1/21/2015	9:40	South Wall	27.6	12.2	10:41	20.0	1	SAH
SC-3	1/21/2015	9:45	East Wall	104	10.9	10:43	20.0	1	SAH
SC-4	1/21/2015	9:50	West Wall	65.0	12.2	10:45	20.0	1	SAH
SC-5	1/21/2015	9:55	Base	2,550	>2,500	10:47	20.0	1	SAH

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Stylanie A. Hinds

AES Field Sampling Report



Client: ConocoPhillips

Project Location: San Juan 28-7 #129F

Date: 1/26/2015

Matrix: Soil

Samula ID	Collection	Collection	Sample	OVM (nnm)	Field TPH*	Field TPH Analysis	TPH PQL	DE	TPH Analysts Initials
Sample ID	Date 1/26/2015	Time	Location	(ppm)	(mg/kg)	Time	(mg/kg)	DF 1	
SC-6		11:15	North Wall	746	23.6	11:38	20.0	1	CL
SC-7	1/26/2015	10:25	East Wall	36.2	27.2	11:21	20.0	1	CL

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



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

OrderNo.: 1501775

January 26, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281

FAX

RE: CoP SJ 28-7 #129F

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/22/2015 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1501775

Date Reported: 1/26/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-7 #129F

Lab ID: 1501775-001

Client Sample ID: SC-1

Collection Date: 1/21/2015 9:30:00 AM

Received Date: 1/22/2015 7:30:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	: WL
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/23/2015 5:53:55 PM	17350
Surr: DNOP	82.8	63.5-128	%REC	1	1/23/2015 5:53:55 PM	17350
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/23/2015 11:17:21 AM	17353
Surr: BFB	88.5	80-120	%REC	1	1/23/2015 11:17:21 AM	17353
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	1/23/2015 11:17:21 AM	17353
Toluene	ND	0.049	mg/Kg	1	1/23/2015 11:17:21 AM	17353
Ethylbenzene	ND	0.049	mg/Kg	1	1/23/2015 11:17:21 AM	17353
Xylenes, Total	ND	0.099	mg/Kg	1	1/23/2015 11:17:21 AM	17353
Surr: 4-Bromofluorobenzene	97.8	80-120	%REC	1	1/23/2015 11:17:21 AM	17353

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 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

Page 1 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1501775

Date Reported: 1/26/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP SJ 28-7 #129F

Collection Date: 1/21/2015 9:40:00 AM

Lab ID: 15017

1501775-002

Matrix: SOIL

Received Date: 1/22/2015 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: WL
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/23/2015 6:15:21 PM	17350
Surr: DNOP	85.1	63.5-128	%REC	1	1/23/2015 6:15:21 PM	17350
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/23/2015 12:43:34 PM	17353
Surr: BFB	90.4	80-120	%REC	1	1/23/2015 12:43:34 PM	17353
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	1/23/2015 12:43:34 PM	17353
Toluene	ND	0.049	mg/Kg	1	1/23/2015 12:43:34 PM	17353
Ethylbenzene	ND	0.049	mg/Kg	1	1/23/2015 12:43:34 PM	17353
Xylenes, Total	ND	0.098	mg/Kg	1	1/23/2015 12:43:34 PM	17353
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	1/23/2015 12:43:34 PM	17353

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 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

Page 2 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1501775

Date Reported: 1/26/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: CoP SJ 28-7 #129F

Collection Date: 1/21/2015 9:45:00 AM

Lab ID: 1501775-003

Received Date: 1/22/2015 7:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: WL
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/23/2015 6:36:35 PM	17350
Surr: DNOP	81.3	63.5-128	%REC	1	1/23/2015 6:36:35 PM	17350
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/23/2015 2:09:56 PM	17353
Surr: BFB	91.6	80-120	%REC	1	1/23/2015 2:09:56 PM	17353
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	1/23/2015 2:09:56 PM	17353
Toluene	ND	0.049	mg/Kg	1	1/23/2015 2:09:56 PM	17353
Ethylbenzene	ND	0.049	mg/Kg	1	1/23/2015 2:09:56 PM	17353
Xylenes, Total	ND	0.099	mg/Kg	1	1/23/2015 2:09:56 PM	17353
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	1/23/2015 2:09:56 PM	17353

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 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

Page 3 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1501775

Date Reported: 1/26/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: CoP SJ 28-7 #129F

Collection Date: 1/21/2015 9:50:00 AM

Lab ID: 1501775-004

Matrix: SOIL

Received Date: 1/22/2015 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	WL
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/23/2015 6:58:05 PM	17350
Surr: DNOP	90.6	63.5-128	%REC	1	1/23/2015 6:58:05 PM	17350
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/23/2015 2:38:39 PM	17353
Surr: BFB	89.3	80-120	%REC	1	1/23/2015 2:38:39 PM	17353
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	1/23/2015 2:38:39 PM	17353
Toluene	ND	0.048	mg/Kg	1	1/23/2015 2:38:39 PM	17353
Ethylbenzene	ND	0.048	mg/Kg	1	1/23/2015 2:38:39 PM	17353
Xylenes, Total	ND	0.096	mg/Kg	1	1/23/2015 2:38:39 PM	17353
Surr: 4-Bromofluorobenzene	98.4	80-120	%REC	1	1/23/2015 2:38:39 PM	17353

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 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

Page 4 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501775

26-Jan-15

Client:

Animas Environmental

Project:

CoP SJ 28-7 #129F

Sample ID MB-17350

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

PBS

Batch ID: 17350

RunNo: 23845

1/22/2015

Units: mg/Kg

Prep Date:

Analysis Date: 1/23/2015

SeqNo: 703566

75.0

128

Analyte Result **PQL** Diesel Range Organics (DRO) ND 10

Surr: DNOP

7.5

10.00

SPK value SPK Ref Val %REC LowLimit HighLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-17350

SampType: LCS

0

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS

Batch ID: 17350

RunNo: 23845

Analyte Diesel Range Organics (DRO)

Prep Date: 1/22/2015

Analysis Date: 1/23/2015

10

SeqNo: 703573 %REC

Units: mg/Kg

%RPD **RPDLimit**

HighLimit 130 Qual

Surr: DNOP

41 4.7 50.00 5.000

SPK value SPK Ref Val

82.8 94.7 67.8 63.5

63.5

128

Oualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

P Sample pH greater than 2.

Reporting Detection Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501775

26-Jan-15

Client:

Animas Environmental

Project:

CoP SJ 28-7 #129F

Sample	MR-	17353

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 17353

RunNo: 23849

Prep Date: 1/22/2015

Units: mg/Kg

Analysis Date: 1/23/2015 PQL

5.0

SeqNo: 704051

Analyte

ND

Result

SPK value SPK Ref Val %REC LowLimit

Gasoline Range Organics (GRO)

HighLimit %RPD **RPDLimit**

Qual

Surr: BFB

890

1000

88.8

120

Sample ID LCS-17353

Client ID: LCSS

SampType: LCS Batch ID: 17353

PQL

5.0

TestCode: EPA Method 8015D: Gasoline Range RunNo: 23849

LowLimit

LowLimit

47 9

80

65.8

80

139

120

Prep Date: 1/22/2015

Analysis Date: 1/23/2015

27

980

Result

SegNo: 704052

107

%REC

Units: mg/Kg

HighLimit

%RPD

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Sample ID 1501775-001AMS

SampType: MS

1000

25.00

SPK value

98.5

SeqNo: 704055

99.6

TestCode: EPA Method 8015D: Gasoline Range

Client ID: SC-1

Prep Date: 1/22/2015

Batch ID: 17353

RunNo: 23849

SPK Ref Val

144

120

Units: mg/Kg

Analyte

Gasoline Range Organics (GRO)

1/22/2015

Result PQL 28 4.9

Analysis Date: 1/23/2015

SPK value SPK Ref Val 24.73

989.1

%REC 0 114

HighLimit

%RPD **RPDLimit**

RPDLimit

Qual

Qual

Surr: BFB

990

Result

27

980

SampType: MSD

PQL

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Prep Date:

SC-1

Sample ID 1501775-001AMSD

Batch ID: 17353

RunNo: 23849

Analysis Date: 1/23/2015

0

SegNo: 704056

Units: mg/Kg

Gasoline Range Organics (GRO) Surr: BFB

4.9 24.73 989.1

SPK value SPK Ref Val

%REC 109 99.0

LowLimit 47.9 80

HighLimit %RPD 144

120

4.56

29.9 0

RPDLimit

0

Qualifiers:

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

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501775

26-Jan-15

Client:

Animas Environmental

Project:

CoP SJ 28-7 #129F

Sample ID MB-17353	SampT	SampType: MBLK			Code: El	tiles				
Client ID: PBS	Batch	ID: 17	353	R	RunNo: 23849					
Prep Date: 1/22/2015	Analysis D	ate: 1/	23/2015	S	04079	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			

Sample ID LCS-17353	SampTyp	be: LCS	S	Test	Code: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch II	D: 173	353	R	unNo: 23	3849				
Prep Date: 1/22/2015	Analysis Dat	te: 1/2	23/2015	S	eqNo: 70	04080	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID 1501775-002AM	S Samp1	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: SC-2	Batcl	n ID: 17	353	F	RunNo: 2	3849					
Prep Date: 1/22/2015	Analysis [ate: 1/	23/2015	8	SeqNo: 7	04084	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.049	0.9794	0	112	69.2	126				
Toluene	1.1	0.049	0.9794	0.01463	106	65.6	128				
Ethylbenzene	1.1	0.049	0.9794	0	112	65.5	138				
Xylenes, Total	3.3	0.098	2.938	0.03638	111	63	139				
Surr: 4-Bromofluorobenzene	1.1		0.9794		110	80	120				

Sample ID 1501775-002AMSI	SampTyp	e: MS	SD	Test	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SC-2	Batch II): 17	353	R	RunNo: 2	3849				
Prep Date: 1/22/2015	Analysis Date	e: 1 /	23/2015	S	SeqNo: 7	04085	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9794	0	107	69.2	126	4.01	18.5	
Toluene	1.0	0.049	0.9794	0.01463	104	65.6	128	1.69	20.6	
Ethylbenzene	1.1	0.049	0.9794	0	111	65.5	138	0.927	20.1	
Xylenes, Total	3.2	0.098	2.938	0.03638	109	63	139	2.08	21.1	
Surr: 4-Bromofluorobenzene	1.0		0.9794		106	80	120	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
- 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.
- RL Reporting Detection Limit

Page 7 of 7



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: 1501775 RcptNo: 1 Received by/date Logged By: Lindsay Mangin 1/22/2015 7:30:00 AM Completed By: **Lindsay Mangin** 1/22/2015 8:35:15 AM 01/22/15 Reviewed By: Chain of Custody Not Present Yes No 1. Custody seals intact on sample bottles? Yes V No Not Present 2. Is Chain of Custody complete? 3 How was the sample delivered? Courier Log In No 🗌 NA [4. Was an attempt made to cool the samples? Yes V NA [5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 Yes V No Sample(s) in proper container(s)? No Yes V 7. Sufficient sample volume for indicated test(s)? No Yes V 8. Are samples (except VOA and ONG) properly preserved? No V NA [Yes 9. Was preservative added to bottles? No VOA Vials V No 10. VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 Yes V for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? No 🗌 14. Is it clear what analyses were requested? Checked by: Yes V No 🗌 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date Signed By Good

	nain	-01-00	istody Record	Turri Turcura	11110.			1 1	140					_		-	10	BII	45		CAL	
Client:	Anamas	Enviro	mmental Sentces	Standard																	TAL OR'	
				Project Name	.			"				ww	w.ha	llenv	riron	men	tal.c	om				
Mailing	Address	604 W.	Pimon St.	COP	SJ 28-7	# 129	F		49	01 H	lawk	ins l	NE -	Alb	uqu	erqu	e, N	M 87	109			
			, NM 8740/	Project #:	and the same of th				Te	el. 50	05-34	45-3	975	F	ax	505-	345	-410	7			
Phone	#: (905)	419-11	660	Cof									Δ	nal	ysis	Req	ues	t				
			Panimas environmental	Project Mana	ger:			1_	(ylu	9	,				04)							T
QA/QC	Package:		□ Level 4 (Full Validation)	E. Sk.	les			(8021	Gas o	₩/o			SIMS)		04,8	PCB's						
Accredi	itation	□ Othe		Sampler: S.	Hinds	□ No		We s	+ MTBE + TPH (Gas only)	O / DR	8.1)	4.1)	_		3,NO ₂ ,	8082		-				î
	(Type)			Sample Tem		4		47	н н	GR	41	1 50		SIS	S.	les	_	Q				\ 0
Date	Time	Matrix	Sample Request ID		Preservative Type	HE	AL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTB	TPH 8015B (GRO / DRO / MR9)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	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)
21/15	09:30	Soil	SC-1	1-402	001	-	001	1		*												
121/16		soil	SC-2	1-402	000/	-6	202	4		X												T
1/21/15		50(1	SC-3	1-402	cool		03	4		4												T
421/15		Sor/	SCY	1-402	cool		04	*		4											1	T
																					\pm	
								-			_									\vdash	+	+
						-																
																					_	_
								-		Н	_	_		_	_	_		\vdash		\vdash	+	+
Data	T	Delicandel	-dh-	Received by:		Date	Time	Des										لِـا				
Date:	Time:	Relinquisk	phone Alesdo	Chustu Received by	Walter V	.1	15 1220 Time	Ball	nark:	s. W	u	ser:	7151 BE1	NAL	٤,	Are	a: 2	23	m '	Nelso		
121/18	1750 necessary	A IVUS	mitted to Hall Environmental may be subc	contracted to other ac	coedited laboratorie	2177	K OFBC es as notice of thi	s possi	bility.	Any su									nalytic	al repo	n.	



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

February 02, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281

FAX

RE: CoP SJ 28-7 #129F

OrderNo.: 1501902

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/27/2015 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1501902

Date Reported: 2/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-7 #129F

Lab ID: 1501902-001

Client Sample ID: SC-5

Collection Date: 1/26/2015 11:15:00 AM

Received Date: 1/27/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	1900	99		mg/Kg	10	1/30/2015 12:51:54 PM	17416
Surr: DNOP	0	63.5-128	S	%REC	10	1/30/2015 12:51:54 PM	17416
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	6800	490		mg/Kg	100	1/28/2015 1:43:49 PM	17419
Surr: BFB	250	80-120	S	%REC	100	1/28/2015 1:43:49 PM	17419
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	11	4.9		mg/Kg	100	1/28/2015 1:43:49 PM	17419
Toluene	230	4.9		mg/Kg	100	1/28/2015 1:43:49 PM	17419
Ethylbenzene	48	4.9		mg/Kg	100	1/28/2015 1:43:49 PM	17419
Xylenes, Total	690	9.9		mg/Kg	100	1/28/2015 1:43:49 PM	17419
Surr: 4-Bromofluorobenzene	129	80-120	S	%REC	100	1/28/2015 1:43:49 PM	17419

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 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

Page 1 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1501902

Date Reported: 2/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project:

CoP SJ 28-7 #129F

Collection Date: 1/26/2015 10:20:00 AM

Lab ID:

1501902-002

Matrix: SOIL

Received Date: 1/27/2015 7:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/29/2015 7:15:22 PM	17416
Surr: DNOP	81.7	63.5-128	%REC	1	1/29/2015 7:15:22 PM	17416
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/28/2015 11:18:08 PM	17419
Surr: BFB	97.2	80-120	%REC	1	1/28/2015 11:18:08 PM	17419
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	1/28/2015 11:18:08 PM	17419
Toluene	ND	0.049	mg/Kg	1	1/28/2015 11:18:08 PM	17419
Ethylbenzene	ND	0.049	mg/Kg	1	1/28/2015 11:18:08 PM	17419
Xylenes, Total	ND	0.099	mg/Kg	1	1/28/2015 11:18:08 PM	17419
Surr: 4-Bromofluorobenzene	108	80-120	%REC	1	1/28/2015 11:18:08 PM	17419

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 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

Page 2 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1501902

Date Reported: 2/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP SJ 28-7 #129F

Lab ID: 1501902-003

Client Sample ID: SC-7

Matrix: SOIL

Collection Date: 1/26/2015 10:25:00 AM

Received Date: 1/27/2015 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst:	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/29/2015 7:36:52 PM	17416
Surr: DNOP	81.2	63.5-128	%REC	1	1/29/2015 7:36:52 PM	17416
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/28/2015 11:46:47 PM	17419
Surr: BFB	94.9	80-120	%REC	1	1/28/2015 11:46:47 PM	17419
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.049	mg/Kg	1	1/28/2015 11:46:47 PM	17419
Toluene	ND	0.049	mg/Kg	1	1/28/2015 11:46:47 PM	17419
Ethylbenzene	ND	0.049	mg/Kg	1	1/28/2015 11:46:47 PM	17419
Xylenes, Total	ND	0.098	mg/Kg	1	1/28/2015 11:46:47 PM	17419
Surr: 4-Bromofluorobenzene	107	80-120	%REC	1	1/28/2015 11:46:47 PM	17419

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 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

Page 3 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501902

02-Feb-15

Client: Project: Animas Environmental

Sample ID MB-17416

CoP SJ 28-7 #129F

Sai	lible	ID	IAI D.	.17

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: PBS

Batch ID: 17416

RunNo: 23963

SPK value SPK Ref Val %REC LowLimit

128

Prep Date: 1/27/2015

Analysis Date: 1/29/2015

PQL

10

SeqNo: 707558

Units: mg/Kg HighLimit

Analyte Diesel Range Organics (DRO) Result ND 8.2

%RPD

RPDLimit

Qual

Surr: DNOP

10.00

82.4

63.5

Sample ID LCS-17416

SampType: LCS

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Prep Date: 1/27/2015

Batch ID: 17416 Analysis Date: 1/29/2015

RunNo: 23963 SeqNo: 707560

Units: mg/Kg

130

128

Analyte Diesel Range Organics (DRO) Surr: DNOP

Result 37 10

SPK value SPK Ref Val 50.00 5.000

SPK value SPK Ref Val

%REC 74.8 96.9

LowLimit HighLimit 67.8 63.5

%RPD

%RPD

%RPD

RPDLimit

Qual

Sample ID MB-17473

SampType: MBLK

Analysis Date: 1/30/2015

PQL

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

PBS

Batch ID: 17473

Result

8.0

4.8

RunNo: 23997

%REC

79.9

SeqNo: 707649

Units: %REC

128

HighLimit

RPDLimit

RPDLimit

Qual

Analyte Surr: DNOP

Prep Date:

1/30/2015

SampType: LCS

TestCode: EPA Method 8015D: Diesel Range Organics

LowLimit

LowLimit

63.5

Client ID:

Sample ID LCS-17473 LCSS

Prep Date: 1/30/2015

Batch ID: 17473 Analysis Date: 1/30/2015

RunNo: 23997

%REC

Units: %REC

Qual

Analyte Surr: DNOP

Result 4.9 SPK value 5.000

10.00

SPK Ref Val

97 1

SeqNo: 707738

63.5

HighLimit 128

Qualifiers:

R

- Value exceeds Maximum Contaminant Level
- Value above quantitation range E
- Analyte detected below quantitation limits RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Sample pH greater than 2
- Reporting Detection Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1501902

02-Feb-15

Client:

Animas Environmental

Project:

CoP SJ 28-7 #129F

Sample ID MB-17419

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

Client ID:

PBS

Batch ID: 17419

RunNo: 23952

Prep Date:

1/27/2015

Analysis Date: 1/28/2015

5.0

SeqNo: 706468

Units: mg/Kg HighLimit

Analyte

Result PQL

0

ND

SPK value SPK Ref Val %REC LowLimit

RPDLimit

%RPD

%RPD

Qual

Gasoline Range Organics (GRO) Surr: BFB

920

1000

92.3

120

Sample ID LCS-17419

SampType: LCS

RunNo: 23952

TestCode: EPA Method 8015D: Gasoline Range

Prep Date: 1/27/2015

Client ID: LCSS

Batch ID: 17419

Analysis Date: 1/28/2015

SeqNo: 706469

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Gasoline Range Organics (GRO) Result 27

SPK value SPK Ref Val 5.0 25.00

%REC 106 101

65.8

139

Surr: BFB

1000

1000

80

LowLimit

120

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND Sample pH greater than 2
- Reporting Detection Limit

P

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1501902

02-Feb-15

Client:

Animas Environmental

Project:

CoP SJ 28-7 #129F

Sample ID MB-17419	SampT	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	n ID: 174	419	R	RunNo: 2	3952				
Prep Date: 1/27/2015	Analysis D	ate: 1/	28/2015	S	SeqNo: 7	06493	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID LCS-17419	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 17	419	F	RunNo: 2	3952				
Prep Date: 1/27/2015	Analysis D	oate: 1/	28/2015	S	SeqNo: 7	06494	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	114	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			
Sample ID 1501902-002AMS	Samp1	ype: MS	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
011 110 000	Б	Potential Programme Progra								

Sample ID	1501902-002AMS	SampT	ype: MS	5	Test	Code: El	PA Method	8021B: Volat	iles				
Client ID:	SC-6	Batch ID: 17419			RunNo: 23952								
Prep Date:	1/27/2015	Analysis D	Analysis Date: 1/28/2015			eqNo: 7	06509	Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit %RPD		RPDLimit	Qual		
Benzene		1.1	0.049	0.9891	0	115	69.2	126					
Toluene		1.1	0.049	0.9891	0.01393	109	65.6	128					
Ethylbenzene		1.1	0.049	0.9891	0.01133	113	65.5	138					
Xylenes, Total		3.4	0.099	2.967	0.08116	113	63	139					
Surr: 4-Bromofluorobenzene		1.1		0.9891		111	80	120					

Sample ID 1501902-002AMS	D SampType: MSD			Tes						
Client ID: SC-6	Batch	ID: 174	419	R	RunNo: 2					
Prep Date: 1/27/2015	Analysis Date: 1/28/2015			SeqNo: 706510			Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	al %REC LowLimi		HighLimit %RPD		RPDLimit	Qual
Benzene	1.1	0.049	0.9881	0	107	69.2	126	7.13	18.5	
Toluene	1.0	0.049	0.9881	0.01393	104	65.6	128	5.05	20.6	
Ethylbenzene	1.1	0.049	0.9881	0.01133	112	65.5	138	1.43	20.1	
Xylenes, Total	3.4	0.099	2.964	0.08116	112	63	139	0.808	21.1	
Surr: 4-Bromofluorobenzene	1.1		0.9881		115	80	120	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
- 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.
- RL Reporting Detection Limit

Page 6 of 6



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

Sample Log-In Check List

RcptNo: 1		1902	Number: 15	Work Order Nur	Environmental	Animas Env	ent Name:		
		20		012715	H.	e: 1	ceived by/dal		
	Judy Allego		MA 00:	1/27/2015 7:00:00	Mangin	Lindsay M	ged By:		
	Analy Hopes		:33 AM	1/27/2015 7:48:33	y Mangin	Lindsay M	mpleted By:		
				01/27/15	70	10	viewed By:		
				or fry	<u> </u>	-	ain of Cus		
Present 🗹	No 🗌	s 🗌	1	?	on sample bottles?				
Present	No 🗌	s V	1			Custody comp			
		urier	2		delivered?	sample deliv	How was the		
							g In		
NA 🗆	No 🗌	s V	1	ples?	e to cool the sample	empt made to	Was an atte		
NA C	No 🗆	s 🗸	C Y	ature of >0° C to 6.0°C	eived at a temperat	mples receive	Were all sar		
	No 🗆	es V	,		container(s)?	n proper conta	Sample(s) i		
	No 🗌	s 🗹	,	lest(s)?	ume for indicated to	mple volume	Sufficient sa		
	No 🗌	s 🗸	١	8. Are samples (except VOA and ONG) properly preserved?					
NA 🗆	No 🗸	s 🗌	١		ied to bottles?	vative added t	Was presen		
OA Vials	No 🗌 I	s 🗌	1		neadspace?	ave zero head	.VOA vials h		
reserved		s 🗆	,	broken?	ntainers received br	ample contain	, Were any s		
s checked 1:	464-1994	s 🗸			ch bottle labels?	work match be	Does paper		
(<2 or >12 unless noted				y)	on chain of custody)				
Adjusted?	No 🗌	s 🗸	1	in of Custody?	dentified on Chair	s correctly ide	Are matrice:		
	No L	s 🗸		d?	es were requested?				
Checked by:	No L	s 🗹	١)	s able to be met? r for authorization.)				
					applicable)	lling (if ap	ecial Hand		
NA 🗹	No 🗌	s 🗆	1	with this order?	all discrepancies w	notified of all d	. Was client r		
	-	***************************************	Date	Da	:	n Notified:	Perso		
Person	none Fax	Mail P	Via:	Vi		nom:	By W		
						rding:	Regar		
					ons:	Instructions:	Client		
						emarks:	. Additional r		
						ormation	Cooler Info		
	Signed By	Date	No Sea	Seal Intact Seal No	And the second state of the second se	CHARLES AND ADDRESS OF THE PARTY OF THE PART	Cooler N		
	Signed By	Date	No Sea	Seal Intact Seal No.	p C Condition	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T	Cooler Info		

Chain-of-Custody Record				Turn-Around Time.					HALL ENVIRONMENTAL												
Mailing Address: 184 W. Pinon St. Frankyty NM 87401 Phone #: 555-564-2251 email or Fax#: 18641618 animal environmental. Con				Project Name: CAPST 29-7 #129 F Project #: Project Manager:				ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
																					Tel. 505-345-3975 Fax 505-345-4107
								Analysis Request													
								(ýl	Đ.					(7)					T		T
								QA/QC Package:				1				S OF	1			3	
					E.Skyles		(8021)	(Ga	30/			SIMS)		P.	2 PC						
Accreditation				Sampler: C. Laneman				TPH (Gas only)	SRO / DE	=	E	8270		NO	808						ê
□ NELAP □ Other				On Ice: Yes No Sample Temperature: 1, Z				+		418	504		တ	S S	188		OA)				ō
□ EDD (Type)			Sample Tem	perature:	1,2	4 8	TBE	8(0	pot	pot	100	leta	C	icide	(A)	-i-				2	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MIBE	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
-26-15	1115	Suit	54-5	1-402jar	Cool	-001	×		Х								-		\top		+
76-15		Soil	51-6	1-42ja-	Cool	-00Z	X		X												T
1-24-15 1025	Sil			Cool	-103	×		X													
				1-402 jar																	
																					T
																				\top	\top
																		\Box	\neg	-	+
																				\top	
Date: Time: Relinquished by: 1				Received by: Date Time Zu 1715 Received by: Date Time Zu 5 715				Remarks: Bill to ConocoPhillips Wo: 26571513 Usor: BENALE Ordered by: Lindsay Dumas Area: 73													
If	necessary.	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	ccledited laboratoric	es. This serves as notice of thi	s possi	bility.	Any st	ub-con	tracte	d data	will b	e clear	ty nota	ated or	n the a	nalytic	al repor	rt.	