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

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	atio	n and Co	orrective A	ction	1				
						OPERA'	ГOR		☐ Initi	al Report	\boxtimes	Final Report	
		irlington Re Phillips Co		a Wholly Own	ed	Contact Cla	ra Cardoza		_				
Address 9a						Telephone No. 505-326-9710							
Facility Nar	ne San Jua	ın 27-5 Unit	3			Facility Type Well							
Surface Ow	ner Federa	l Private		Mineral O	wner l	Federal	en -		API No	o. 30-039-0	7038		
				LOCA	TIO	N OF RE	LEASE						
Unit Letter M	Section 17	Township 27N	Range 05W	Feet from the 990		th/South Line Feet from the Hast/West Line County Rio Arrib							
		'	Latitu	de_ <u>36.56909</u>	I.	ongitude	107.3873	NAD8	3				
	NATURE OF RELEASE												
Type of Rele		arbon/Produce	ed Water				Release 38 bbl			Recovered n			
Source of Re	lease Tank					Date and I Unknown	Iour of Occurrence	ce		Hour of Dis 7 @ 10:45	covery		
Was Immedia	ate Notice (Yes [No Not Re	quired	If YES, To Cory Smit	Whom? h & Vanessa Field	ds					
By Whom? L	isa Hunter	_				Date and I	Hour 7/28/2017 @) 12:53 p	o.m.				
Was a Watero	course Read		Yes 🛭] No		If YES, Vo	olume Impacting	the Wate	ercourse.				
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	•									
	g at the site	the field oper	ator notice	n Taken.* ed condensate in that ink in order to repa			the bottom of the	e tank w	hich appea	ars to be the	result of	corrosion.	
Based on fina	ıl field sam		ratory ana	ten.* llytical results the applicable NMOC									
regulations al public health should their o	I operators or the environs hoperations h	are required to ronment. The ave failed to a ddition, NMC	o report ar acceptance adequately OCD accep	e is true and compl nd/or file certain re- ce of a C-141 report investigate and re- tance of a C-141 re-	elease n rt by th emediat	notifications and le NMOCD m le contaminati	nd perform correct arked as "Final R on that pose a thr	tive acti eport" d eat to gr	ons for rele oes not rele ound water	eases which ieve the ope r, surface wa	may end rator of ater, hun	danger liability nan health	
Signature:	zmda		1000			OIL CON	SERV	ATION	DIVISIO	7			
Printed Name	: Lindsay [Dumas			Approved by	Environmental S	pecialist	: (e	my J	<u>M</u>			
Title: Enviror	nmental Spe	ecialist				Approval Da	te: 2/26/	18 1	Expiration :	Date:			
E-mail Addre	ss: ldumas(@hilcorp.com	ı			Conditions of Approval:				П			
Date: 11/08/			Phone: 281-794-9	159		0	IL CO	NS. DIV	DIST. 3				
Attach Addi	tional Shee	ets If Necess	^{ary} #	WVF172	129	3696	2		V 1 3 2		12		
			-					.,,		~	1 .	117) /	

Animas Environmental Services, LLC



October 13, 2017

Lindsay Dumas Hilcorp Energy Company Idumas@hilcorp.com (832) 839-4585

RE: Final Excavation Report

San Juan 27-5 Unit 3

Rio Arriba County, New Mexico

Dear Ms. Dumas:

On October 3 and 9, 2017, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits at the Hilcorp Energy Company (Hilcorp) San Juan 27-5 Unit 3, located in Rio Arriba County, New Mexico. The release consisted of 38 bbls of condensate from the production tank at the location. The final excavation was completed by Hilcorp contractors prior to AES' arrival on location on October 9, 2017.

1.0 Site Information

1.1 Location

Site Name – San Juan 27-5 Unit 3
Legal Description – SW¼ SW¼, Section 17, T27N, R5W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.56971 and W107.38779, respectively Release Latitude/Longitude – N36.56974 and W107.38749, respectively Land Jurisdiction – Private

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, October 2017

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 20 based on the following factors:

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

> 1911 Main, Ste 206 Durango, CO 81301 970-403-3084

www.animasenvironmental.com

- Depth to Groundwater: A cathodic protection report form dated May 1991 reported the depth to groundwater at 80 feet below ground surface (bgs). (10 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An unnamed wash which discharges to Carrizo Canyon Wash is located approximately 430 feet southeast of the location. (10 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of Hilcorp on September 18, 2017, and on October 3 and 9, 2017, Corwin Lameman of AES completed the excavation field work. The field sampling activities included collection of five confirmation soil samples (SC-1 through SC-5) from the walls and base of the excavation. The area of the final excavation measured approximately 36 feet by 39 feet by 17 to 19 feet in depth. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for volatile organic compound (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

Soil samples were also analyzed in the field for total petroleum hydrocarbons (TPH) 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' 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 sample chain of custody records. 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), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

Field sampling results and laboratory analytical results are summarized in Tables 1 and 2, respectively, and on Figure 3. The AES Field Sampling Reports and laboratory analytical reports are attached.

Table 1. Soil Field VOCs and TPH Results
San Juan 27-5 Unit 3 Final Excavation
October 2017

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)
SC 1		OCD Action Level*	0.0	38.5
SC-1 SC-2	10/3/17	2 to 17 2 to 15	0.0	44.0
SC-3	10/3/17	2 to 15	0.0	45.3
SC-4	10/9/17	4 to 15	0.0	27.6
SC-5	10/3/17	17 to 19	1,198	146

^{*}Action level determined by NMAC 19.15.17.13 Table 1

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 27-5 Unit 3 Final Excavation

	October 2017												
Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	TPH- MRO (mg/kg)						
	NMOCD Act	ion Level*	10	50		100							
SC-1	10/3/17	2 to 17	<0.017	<0.149	<3.3	<9.5	<48						
SC-2	10/3/17	2 to 15	<0.023	<0.207	<4.6	<9.4	<47						
SC-3	10/3/17	2 to 15	<0.024	<0.216	<4.8	<9.7	<48						
SC-4	10/9/17	4 to 17	<0.014	<0.130	<2.9	<9.4	<47						
SC-5	10/3/17	17 to 19	<0.074	0.83	24	<10	<50						

^{*}Action level determined by NMAC 19.15.17.13 Table 1

3.0 Conclusions and Recommendations

On October 3 and 9, 2017, final clearance of the excavation area at the San Juan 27-5 Unit 3 was completed. Field sampling results of the excavation extents showed field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for all samples except SC-5 (base). However, laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO/MRO) in all samples as below NMOCD action levels.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 27-5 Unit 3, 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 Elizabeth McNally at (505) 564-2281.

Sincerely,

David J. Reese

Environmental Scientist

Elizabeth V MeNdly

David of Reme

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, October 2017

Figure 3. Final Excavation Area Sample Locations and Results, October 2017

AES Field Sampling Report 100317

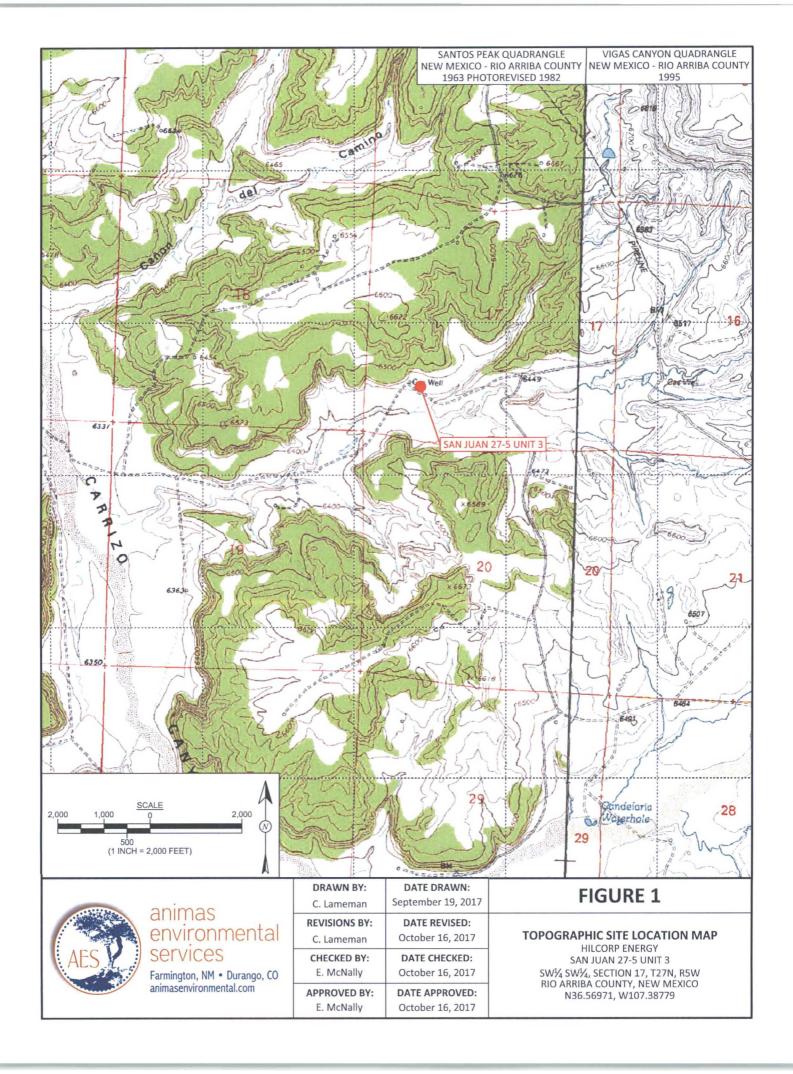
AES Field Sampling Report 100917

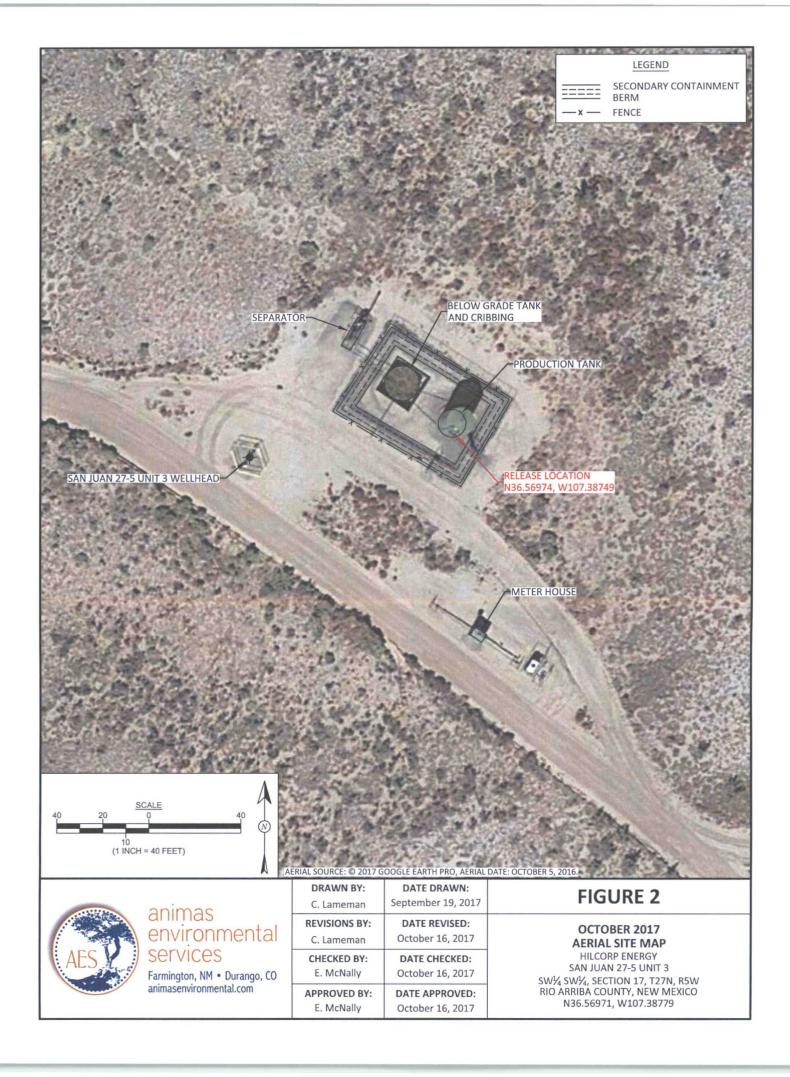
Hall Laboratory Analytical Report 1710167

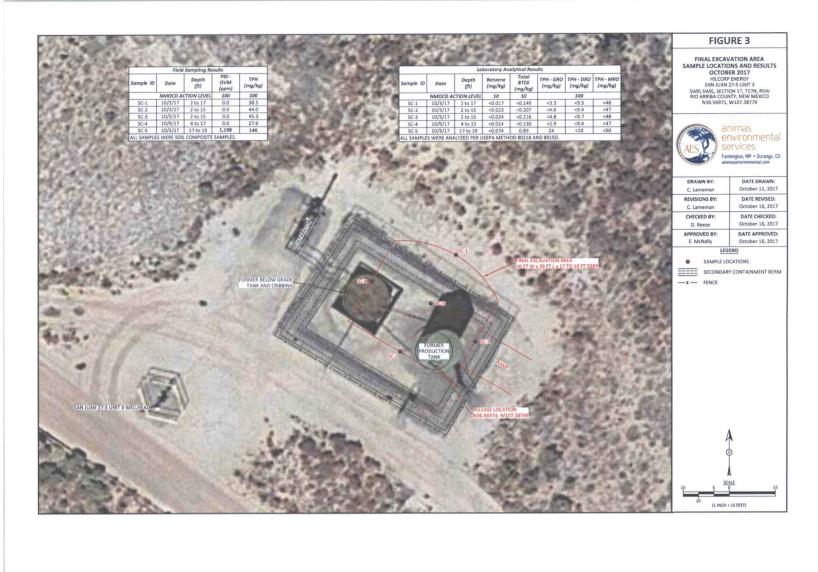
Hall Laboratory Analytical Report 1710295

Hall Laboratory Analytical Report 1710491

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AES Field Sampling Report



Client: Hilcorp Energy Company

Project Location: San Juan 27-5 Unit 3

Date: 10/3/2017

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	10/3/2017	11:45	North Wall	0.0	38.5	12:22	20.0	1	CL
SC-2	10/3/2017	11:50	South Wall	0.0	44.0	12:25	20.0	1	CL
SC-3	10/3/2017	11:33	East Wall	0.0	45.3	12:29	20.0	1	CL
SC-5	10/3/2017	11:29	Base	1,198	146	12:35	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:

Page 1

Report Finalized: 10/3/17

AES Field Sampling Report



Client: Hilcorp Energy Company

Project Location: San Juan 27-5 Unit 3

Date: 10/9/2017

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH*	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-4	10/9/2017	10:43	West Wall	0.0	27.6	10:56	20.0	1	CL

DF

Dilution Factor

Not Analyzed

NA PQL

Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Page 1

Report Finalized: 10/9/17



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

OrderNo.: 1710167

October 05, 2017

Corwin Lameman Animas Environmental Services 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Hilcorp San Juan 27-5 Unit 3

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/4/2017 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 qualifiers 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

Analytical Report Lab Order 1710167

Date Reported: 10/5/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Hilcorp San Juan 27-5 Unit 3 Project:

Lab ID: 1710167-001 Client Sample ID: SC-4

Collection Date: 10/3/2017 11:58:00 AM

Received Date: 10/4/2017 7:30:00 AM

Analyses	Result	PQL (Qual U	nits	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			<u>-</u>	Analyst	: TOM
Diesel Range Organics (DRO)	130	9.8	n	ng/Kg	1	10/4/2017 11:04:41 AM	34229
Motor Oil Range Organics (MRO)	ND	49	n	ng/Kg	1	10/4/2017 11:04:41 AM	34229
Surr: DNOP	105	70-130	%	6Rec	1	10/4/2017 11:04:41 AM	34229
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	81	3.2	m	ng/Kg	1	10/4/2017 10:11:05 AM	34210
Surr: BFB	353	54-150	S %	6Rec	1	10/4/2017 10:11:05 AM	34210
EPA METHOD 8021B: VOLATILES						Analyst	:: NSB
Benzene	0.11	0.016	m	ng/Kg	1	10/4/2017 10:11:05 AM	34210
Toluene	2.0	0.032	m	ng/Kg	1	10/4/2017 10:11:05 AM	34210
Ethylbenzene	0.39	0.032	m	ng/Kg	1	10/4/2017 10:11:05 AM	34210
Xylenes, Total	4.5	0.064	m	ng/Kg	1	10/4/2017 10:11:05 AM	34210
Surr: 4-Bromofluorobenzene	113	66.6-132	%	6Rec	1	10/4/2017 10:11:05 AM	34210

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 J
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1710167

Date Reported: 10/5/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

1710167-002 Lab ID:

Project:

Hilcorp San Juan 27-5 Unit 3

Matrix: SOIL

Client Sample ID: SC-5

Collection Date: 10/3/2017 11:29:00 AM

Received Date: 10/4/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analy	st: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/4/2017 11:26:43 A	M 34229
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/4/2017 11:26:43 A	M 34229
Surr: DNOP	103	70-130	%Rec	1	10/4/2017 11:26:43 A	M 34229
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	st: NSB
Gasoline Range Organics (GRO)	24	15	mg/Kg	5	10/4/2017 9:47:43 AM	34210
Surr: BFB	137	54-150	%Rec	5	10/4/2017 9:47:43 AM	34210
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.074	mg/Kg	5	10/4/2017 9:47:43 AN	34210
Toluene	ND	0.15	mg/Kg	5	10/4/2017 9:47:43 AN	34210
Ethylbenzene	ND	0.15	mg/Kg	5	10/4/2017 9:47:43 AM	34210
Xylenes, Total	0.83	0.30	mg/Kg	5	10/4/2017 9:47:43 AM	34210
Surr: 4-Bromofluorobenzene	99.7	66.6-132	%Rec	5	10/4/2017 9:47:43 AM	34210

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 5 J
- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710167 05-Oct-17

Client:

Animas Environmental Services

Project:

Hilcorp San Juan 27-5 Unit 3

Sample ID	LCS-34229
Client ID:	LCSS

SampType: LCS Batch ID: 34229 TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 46080

Prep Date: 10/4/2017 Analysis Date: 10/4/2017 SeqNo: 1465760

Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit **HighLimit** Diesel Range Organics (DRO) 43 10 50.00 86.8 73.2 114 Surr: DNOP 4.7 5.000 93.9 70 130

Sample ID MB-34229 Client ID: PBS

10/4/2017

SampType: MBLK Batch ID: 34229

Analysis Date: 10/4/2017

PQL

TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 46080 SeqNo: 1465761

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

%RPD **RPDLimit**

RPDLimit

Qual

Qual

Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)

Prep Date:

Sur: DNOP

Client ID:

Prep Date:

ND 10 ND 50 9.9

10.00

SPK value SPK Ref Val %REC

125.2

125.2

98.7

70

Sample ID 1710167-001AMS SC-4

10/4/2017

SampType: MS

Result

Batch ID: 34229

Analysis Date: 10/4/2017

RunNo: 46080

119

102

LowLimit

Units: mg/Kg

122

130

130

Analyte Diesel Range Organics (DRO)

Surr: DNOP

Result PQL

180

4.8

Result

150

5.0

SPK value SPK Ref Val 47.35

4.735

48.97

4.897

SeqNo: 1465997 %REC LowLimit

HighLimit 55.8

%RPD

%RPD

RPDLimit

Qual

Qual

S

Sample ID 1710167-001AMSD

SampType: MSD

Batch ID: 34229

PQL

9.8

9.5

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 46080

70

Units: mg/Kg

Prep Date: 10/4/2017 Analyte Diesel Range Organics (DRO)

Sur: DNOP

Client ID:

Analysis Date: 10/4/2017

SeqNo: 1465998 SPK value SPK Ref Val %REC LowLimit

53.7

102

55.8

70

HighLimit 122

130

%RPD **RPDLimit** 18.0

0

20 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710167

05-Oct-17

Client:

Animas Environmental Services

Project:

Hilcorp San Juan 27-5 Unit 3

Sample ID	MB-34210
l	

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: 34210 Analysis Date: 10/4/2017 RunNo: 46084

SeqNo: 1466652

LowLimit

Analyte

Prep Date: 10/3/2017

Result **PQL** ND 5.0

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO) Surr. BFB

880

Result

SPK value SPK Ref Val %REC

87.6

54 150

Sample ID LCS-34210

Prep Date: 10/3/2017

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 34210

RunNo: 46084

Units: mg/Kg

Analyte

Analysis Date: 10/4/2017

SPK value SPK Ref Val

0

SeqNo: 1466653 %REC LowLimit

HighLimit

%RPD

Qual

Gasoline Range Organics (GRO) Surr: BFB

31 1000

POL 5.0 25.00 1000

1000

124 101

76.4 125 150 **RPDLimit**

Sample ID MB-34201

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Batch ID: 34201

RunNo: 46084 SeqNo: 1466658

88.7

Units: %Rec

Analyte

Prep Date:

Result 890

Analysis Date: 10/4/2017

SPK value SPK Ref Val %REC

HighLimit

%RPD

RPDLimit Qual

Surr: BFB

Sample ID LCS-34201

10/3/2017

10/3/2017

SampType: LCS

Analysis Date: 10/4/2017

TestCode: EPA Method 8015D: Gasoline Range

150

Client ID: LCSS

Batch ID: 34201

RunNo: 46084

SeqNo: 1466659

LowLimit

Units: %Rec

%RPD

RPDLimit Qual

Analyte Surr: BFB

Prep Date:

Result 990 SPK value SPK Ref Val

1000

%REC 99.4 LowLimit 54

HighLimit

1000

150

Qualifiers:

Н

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- ND Not Detected at the Reporting Limit Practical Quanitative Limit POL
- % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RLW Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710167

05-Oct-17

Client:

Animas Environmental Services

Project:

Hilcorp San Juan 27-5 Unit 3

Sample ID MB-34210	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles			
Client ID: PBS Batch ID: 34210			RunNo: 46084							
Prep Date: 10/3/2017	Date: 10/3/2017 Analysis Date: 10/4/2017			\$	SeqNo: 1466686			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	66.6	132			

Sample ID LCS-34210	SampType: LCS Batch ID: 34210 Analysis Date: 10/4/2017			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS				F	RunNo: 4					
Prep Date: 10/3/2017				SeqNo: 1466687 Units:				Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr. 4-Bromofluorobenzene	0.99		1.000		99.2	66.6	132			

Sample ID MB-34201	TestCode: E	PA Method	8021B: Volat	iles				
Client ID: PBS	Batch	ID: 34201	RunNo: 4	6084				
Prep Date: 10/3/2017	Analysis Da	ate: 10/4/2017	SeqNo: 1	466753	Units: %Rec	;		
Analyte	Result	PQL SPK value	SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr. 4-Bromofluorobenzene	0.95	1.000	95.5	66.6	132			

Sample ID LCS-34201	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	1D: 34	201	F	RunNo: 4	6084				
Prep Date: 10/3/2017	Analysis D	ate: 1	0/4/2017	8	SeqNo: 1	466754	Units: %Re	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr 4-Bromoffuomhenzene	0.99		1 000		98.9	66.6	132			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



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

Animas Environmental Work Order Number: 1710167 RaptNo: 1 Client Name: 10/4/2017 7:30:00 AM Received By: Sophia Campuzano unas 10/4/2017 8:12:22 AM Completed By: Erin Melendrez Reviewed By: Chain of Custody No 🗆 Yes | Not Present 1. Custody seals intact on sample bottles? Yes 🗹 No 🗆 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier <u>Log In</u> No 🗆 NA 🗆 Yes 🔽 4. Was an attempt made to cool the samples? NA 🗆 No 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 No [Yes 🔽 6. Sample(s) in proper container(s)? No 🗆 Yes 🗹 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? Yes 🗆 No 🗹 NA 🗆 9. Was preservative added to bottles? No 🗆 No VOA Vials Yes 🗌 10.VOA vials have zero headspace? Yes 🗆 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗆 Yes V 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes 🗹 13 Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🗹 14. Is it clear what analyses were requested? No 🗆 Checked by: Yes 🗹 15. Were all holding times able to be met? (if no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗆 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Via: Regarding: **Client Instructions:** 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By Not Present 2.8 Good

Ch	Chain-of-Custody Record			Turn-Around T	ime:	- 				-	LAI		-	/TB	ON	24	= 10.5 *	TA I	
Client:	Animas	Enviro	nmental Services, LLC	☐ Standard	X Rush	_SAME DAY		;	╬						AB(_
				Project Name:											ntal.c				
Mailing Ad	dress:	604 W	Pinon St.	Hilcorp	San Juan 27	-5 Unit 3		4	1901	Hawi					ue, N		109		
		Farming	gton, NM 87401	Project #:							45-38			•	5-345				
Phone #:	505-564	-2281											lysis	Req	uest				
Email or Fa	ex#: clam	eman@a	nimasenvironmental.com	Project Manager.				1			1								
QA/QC Pac X Standar	-		☐ Level 4 (Full Validation)	C. Lameman/E. McNally					6013				I	ł					
Accreditati		☐ Other		Sampler: CL					5				-		ļ				
□ EDD (T	уре)			Samblement	daloles SA							ı	1	1			- 1		Z
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	MEXINA Film(57)	OTEY 9004B	שובא - פעלום	(ONWONDAMENT)										Air Bubbles (Y or N)
10/3/17	11:45 -11:45	SOIL	SC-4	1 - MeOH Kit 1 - 4 oz jar	cool	-001	,	()	4										
10/3/17	-11:50	SOIL	SC-5	1 - MeOH Kit 1 - 4 oz lar	cool	-002	7		त				7	T				\Box	
	,		mas 4/11							\top				T					
			<u> </u>					1	十	1		7	十	\top	1			\exists	
							_	十	+	+		_	\dashv	十	1		_	7	
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Date:	Time: 1819	Relinguish	i hu	Received by:	all	Date Tim 10/3/n 181	9	emai	rks: E	Bill to	AES.								
Date: 013/17	7004/	Relinquish	to Late	Received by:	m 1	Date Tim 0/04/17 07	130												
		samples subm	litted to Hall Environmental may be sub	contracted to other a	ccredited laborator	ies. This serves as noti	ice of this	possi	blity.	Any sub	-contra	cted da	ta will t	e dear	ly notate	d on th	e analy	tical re	port



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

October 10, 2017

Elizabeth McNally
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Hilcorp San Juan 27 5 Unit 3

OrderNo.: 1710295

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/4/2017 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 qualifiers 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 1710295

Date Reported: 10/10/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Hilcorp San Juan 27 5 Unit 3

Collection Date: 10/3/2017 11:45:00 AM

Lab ID: 1710295-001

Matrix: MEOH (SOIL) Received Date: 10/4/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/9/2017 1:12:19 PM	34276
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/9/2017 1:12:19 PM	34276
Surr: DNOP	90.7	70-130	%Rec	1	10/9/2017 1:12:19 PM	34276
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/9/2017 1:09:15 PM	G46204
Surr: BFB	86.8	54-150	%Rec	1	10/9/2017 1:09:15 PM	G46204
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.017	mg/Kg	1	10/9/2017 1:09:15 PM	B46204
Toluene	ND	0.033	mg/Kg	1	10/9/2017 1:09:15 PM	B46204
Ethylbenzene	ND	0.033	mg/Kg	1	10/9/2017 1:09:15 PM	B46204
Xylenes, Total	ND	0.066	mg/Kg	1	10/9/2017 1:09:15 PM	B46204
Surr: 4-Bromofluorobenzene	91.7	66.6-132	%Rec	1	10/9/2017 1:09:15 PM	B46204

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1710295

Date Reported: 10/10/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Hilcorp San Juan 27 5 Unit 3

Lab ID: 1710295-002

Client Sample ID: SC-2

Collection Date: 10/3/2017 11:50:00 AM

Matrix: MEOH (SOIL) Received Date: 10/4/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analys	st: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/9/2017 1:39:54 PM	34276
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/9/2017 1:39:54 PM	34276
Surr: DNOP	91.1	70-130	%Rec	1	10/9/2017 1:39:54 PM	34276
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/6/2017 4:22:30 PM	34265
Surr: BFB	88.4	54-150	%Rec	1	10/6/2017 4:22:30 PM	34265
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.023	mg/Kg	1	10/6/2017 4:22:30 PM	34265
Toluene	ND	0.046	mg/Kg	1	10/6/2017 4:22:30 PM	34265
Ethylbenzene	ND	0.046	mg/Kg	1	10/6/2017 4:22:30 PM	34265
Xylenes, Total	ND	0.092	mg/Kg	1	10/6/2017 4:22:30 PM	34265
Surr: 4-Bromofluorobenzene	93.8	66.6-132	%Rec	1	10/6/2017 4:22:30 PM	34265

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Page 3 of 11
 W Sample container temperature is out of limit as specified

Lab Order 1710295

Date Reported: 10/10/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3 Collection Date: 10/3/2017 11:33:00 AM

Project: Hilcorp San Juan 27 5 Unit 3 Lab ID: 1710295-003

Matrix: MEOH (SOIL) Received Date: 10/4/2017 7:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/9/2017 2:07:27 PM	34276
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/9/2017 2:07:27 PM	34276
Surr: DNOP	91.1	70-130	%Rec	1	10/9/2017 2:07:27 PM	34276
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/6/2017 5:33:15 PM	34265
Surr: BFB	88.0	54-150	%Rec	1	10/6/2017 5:33:15 PM	34265
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	10/6/2017 5:33:15 PM	34265
Toluene	ND	0.048	mg/Kg	1	10/6/2017 5:33:15 PM	34265
Ethylbenzene	ND	0.048	mg/Kg	1	10/6/2017 5:33:15 PM	34265
Xylenes, Total	ND	0.096	mg/Kg	1	10/6/2017 5:33:15 PM	34265
Surr: 4-Bromofluorobenzene	93.7	66.6-132	%Rec	1	10/6/2017 5:33:15 PM	34265

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Page 4 of 11 Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710295

10-Oct-17

Client:

Animas Environmental Services

SampType: MBLK

Project:

Sample ID MB-34276

Hilcorp San Juan 27 5 Unit 3

Sample ID LCS-34276	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: DI	esel Rang	e Organics	
Client ID: LCSS	Batch	Batch ID: 34276 RunNo: 46197								
Prep Date: 10/6/2017	Analysis D)ate: 10	0/9/2017	8	SeqNo: 1	471237	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.5	73.2	114			
Surr: DNOP	4.7		5.000		93.3	70	130			

TestCode: EPA Method 8015M/D: Diesel Range Organics

Prep Date: 10/6/2017	Analysis D)ate: 10	0/9/2017	\$	SeqNo: 1	471238	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.5	70	130			

Sample ID MB-34277	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 34277	RunNo: 46198	
Prep Date: 10/6/2017	Analysis Date: 10/9/2017	SeqNo: 1471363	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr. DNOP	9.3 10.00	92.9 70	130

Sample ID LCS-34277	SampType: LCS	S	Test	Code: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 342	277	R	lunNo: 4	6198				
Prep Date: 10/6/2017	Analysis Date: 10	/9/2017	S	eqNo: 1	471655	Units: %Re	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7	5.000		93.3	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710295

10-Oct-17

Client: Project: Animas Environmental Services

Hilcorp San Juan 27 5 Unit 3

Result

Sample ID	MB-34265
Client ID:	PBS
Prep Date:	10/5/2017

SampType: MBLK Batch ID: 34265

TestCode: EPA Method 8015D: Gasoline Range RunNo: 46173

Analysis Date: 10/6/2017

PQL

SeqNo: 1470392

LowLimit

54

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Analyte Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 870

1000

SPK value SPK Ref Val

87.0

%REC

150

Sample ID LCS-34265

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Prep Date: 10/5/2017

Batch ID: 34265 Analysis Date: 10/6/2017 RunNo: 46173 SeqNo: 1470393

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

POI: Result 28 5.0

990

SPK value SPK Ref Val 25.00 0

%REC LowLimit 114 99.0

HighLimit 76.4 125 150 %RPD **RPDLimit**

Qual

Surr: BFB

Sample ID 1710295-003AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: SC-3

Prep Date: 10/5/2017

Batch ID: 34265 Analysis Date: 10/6/2017

SampType: MSD

RunNo: 46173 SeqNo: 1470396

100

Units: mg/Kg

Gasoline Range Organics (GRO) Surr. BFB

Result 30 930 **PQL** SPK value SPK Ref Val 47 23.30

932.0

1000

%REC LowLimit 129 77.8

54

TestCode: EPA Method 8015D: Gasoline Range

HighLimit 128 150 %RPD **RPDLimit**

Qual

Sample ID 1710295-003AMSD

Prep Date: 10/5/2017

Client ID: SC-3 Batch ID: 34265

RunNo: 46173

Analyte Gasoline Range Organics (GRO) Result **PQL** 29 4.8

960

Result

ND

930

Analysis Date: 10/6/2017 SPK value SPK Ref Val

SeqNo: 1470397 %REC

Units: mg/Kg

150

%RPD **RPDLimit**

Surr. BFB

Client ID:

Prep Date:

Analyte

960.6

24.02

122 100

LowLimit HighLimit 77.8 128

2.49

20 0 0

Sample ID RB

SampType: MBLK Batch ID: G46204

Analysis Date: 10/9/2017

PQL

PQL

5.0

TestCode: EPA Method 8015D: Gasoline Range RunNo: 46204

SeqNo: 1471397 SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg LowLimit HighLimit

TestCode: EPA Method 8015D: Gasoline Range

54

RPDLimit %RPD

Qual

Qual

Sum: BFB

Client ID:

Prep Date:

SampType: LCS

Analysis Date:

Result

1000

93.3

54 150

Sample ID 2.5UG GRO LCS LCSS

Gasoline Range Organics (GRO)

PBS

Batch ID: G46204 10/9/2017

RunNo: 46204

SeqNo: 1471398

Units: ma/Ka

HighLimit

%RPD

RPDLimit

Qual

Qualifiers:

Analyte

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

- E Value above quantitation range
- 1 Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit

Page 6 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710295

10-Oct-17

Client:

Animas Environmental Services

Project:

Hilcorp San Juan 27 5 Unit 3

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Prep Date:

LCSS

Batch ID: G46204

5.0

RunNo: 46204

Analysis Date: 10/9/2017

SeqNo: 1471398

Units: mg/Kg

HighLimit

Analyte

Result PQL

25.00

SPK value SPK Ref Val %REC LowLimit 114

%RPD

RPDLimit

Qual

Gasoline Range Organics (GRO)	
Surr. BFB	

28	
1100	

1000

107

76.4 54

125 150

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Ε Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710295 10-Oct-17

Client:

Animas Environmental Services

Project:

Hilcorp San Juan 27 5 Unit 3

Sample ID MB-34265	Samp [*]	Гуре: М Е	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 34	265	F	RunNo: 4	6173				
Prep Date: 10/5/2017	Analysis [Date: 10	0/6/2017	5	SeqNo: 1	470424	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr. 4-Bromofluorobenzene	0.94		1.000		93.8	66.6	132			

Sample ID LCS-34265	Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	n ID: 34	265	F	RunNo: 4	6173				
Prep Date: 10/5/2017	Analysis D	ate: 10)/6/2017	8	SeqNo: 1	470425	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr. 4-Bromofluorobenzene	1.0		1.000		100	66.6	132			

Sample ID 1710295-002AMS	SampT	ype: MS	3	TestCode: EPA Method 8021B: Volatiles						
Client ID: SC-2	Batch	n ID: 34	265	F	RunNo: 4	6173	•			
Prep Date: 10/5/2017	Analysis D)ate: 10	0/6/2017	8	SeqNo: 1	470427	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9970	0	105	80.9	132			
Toluene	1.1	0.050	0.9970	0.01005	105	79.8	136			
Ethylbenzene	1.1	0.050	0.9970	0	110	79.4	140			
Xylenes, Total	3.3	0.10	2.991	0	111	78.5	142			
Surr: 4-Bromofluorobenzene	0.96		0.9970		96.7	66.6	132			

Sample ID 1710295-002AM	SD SampT	ype: MS	SD .	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: SC-2	Batch	ID: 34 2	265	F	RunNo: 4	6173				
Prep Date: 10/5/2017	Analysis D	ate: 10	/6/2017	9	SeqNo: 1	470466	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9524	0	105	80.9	132	4.43	20	
Toluene	1.0	0.048	0.9524	0.01005	105	79.8	136	4.59	20	
Ethylbenzene	1.0	0.048	0.9524	0	109	79.4	140	5.44	20	
Xylenes, Total	3.2	0.095	2.857	0	111	78.5	142	4.30	20	
Surr. 4-Bromofluorobenzene	0.90		0.9524		94.7	66.6	132	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710295

10-Oct-17

Client:

Animas Environmental Services

Project:

Hilcorp San Juan 27 5 Unit 3

Sample ID	KB
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Batch ID: **B46204**

RunNo: 46204

Prep Date:

Analysis Date: 10/9/2017

SeqNo: 1471413

Units: mg/Kg

HighLimit

RPDLimit %RPD

Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit
Benzene	ND	0.025				·
Toluene	ND	0.050				
Ethylbenzene	ND	0.050				
Xylenes, Total	ND	0.10				
Surr. 4-Bromofluorobenzene	0.97		1.000		97.4	66.6

66.6

132

Sample ID 100NG BTEX LO	CS Samp	Гуре: LC	s	Tes	tiles					
Client ID: LCSS	Batc	h ID: B4	6204	F	RunNo: 4	6204				
Prep Date:	Analysis [Date: 10	0/9/2017	5	SeqNo: 1	471414	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.7	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	66.6	132			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 9 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LABORA	UNI	Website: www.ha	llenvironmenta	al.com		
Client Name: An	mas Environmental	Work Order Number:	1710295		RcptNo:	1
Received By: Se	ophia Campuzano	10/4/2017 7:30:00 AM		Some in-	-	
Completed By: El	rin Melendrez	10/5/2017 9:10:43 AM		max	5	
Reviewed By:	N	10 5 17				
Chain of Custod	Y					
1. Custody seals in	tact on sample bottles?		Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of Custo	ody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the sar	nple delivered?		<u>Courier</u>			
Log in						
4. Was an attempt	made to cool the sample:	s?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples	a received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in pro	per container(s)?		Yes 🗹	No 🗆		
7. Sufficient sample	volume for indicated test	(s)?	Yes 🗹	No 🗆		
8. Are samples (exc	ept VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗆		
9. Was preservative	added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have a	ero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
11. Were any sample	e containers received bro	ken?	Yes	No 🗹	# of preserved	
40 5			v . 🖼	No 🗆	bottles checked for pH:	
12.Does paperwork (Note discrepand	match bottle labels? ies on chain of custody)		Yes 🗹	No ∐	· —	r >12 unless noted)
13. Are matrices con	ectly identified on Chain	of Custody?	Yes 🗹	No 🗆	Adjusted? _	
14. Is it clear what ar	nalyses were requested?		Yes 🗹	No 🗆		
	times able to be met? omer for authorization.)		Yes 🗹	No 🗆	Checked by:	
6						
Special Handling			🗖		🖪	
16. Was client notifie	d of all discrepancies with	this order?	Yes 🗆	No 🗆	NA 🗹	1
Person Not	ified:	Date:				
By Whom:		Via: [eMail 🗌	Phone 🗌 Fax	In Person	
Regarding:		, , , , , , , , , , , , , , , , , , , 			an a	
Client Instr						J
17. Additional remar	ks:					
18. Cooler Informat						
Cooler No 1			Seal Date	Signed By		
<u>l'</u>	B Good Ye					

Client:			touy recoru nmental Services, LLC	X Standard				L						RO LAI					
			•	Project Name:										menta				<i>-</i> 12	•
Mailing Ad	dress:	604 W	Pinon St.	Hilcorp	San Juan 27	-5 Unit 3			490	01 H	awkins						09		
		Farmin	gton, NM 87401	Project #:							5-345		-	505-3					
Phone #:	505-564	-2281		<u></u>										eques					
Email or F	ax#: clam	neman@a	nimasenvironmental.com	Project Manag	jer.					ł		ļ			Ì	l			
QA/QC Pac	_				C. Lamema	n/E. McNaily			2	Ì						- [
X Standar			☐ Level 4 (Full Validation)						- 8015						Ì	İ			
Accreditati		☐ Other		Sampler: CL					Ö						ŀ				
□ EDD (T				Samplement					MAR	ŀ		1			İ				N
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type			BTEX-8021B	TPH (GRO/DRO/MRO)										Air Bubbles (Y or N)
10/3/17	11:45	SOIL	SC-1	1 - MeOH Kit 1 - 4 oz jar	cool	-601		X	Х										
10/3/17	11:50	SOIL	SC-2	2 - 4 oz jar	cool	-003	,	X	X										
10/3/17	11:33	SOIL	SC-3	2 - 4 oz jar	cool	-003		X	X										
													$oxed{oxed}$						
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				<u></u>															
													<u> </u>		_		_		
Pag			L									_L							
Date: : : : : : : : : : : : : : : : : : :	Time: 1819	Relinquish	- lu-	Received by:	M	6 /3/n	Time [8[9	Ren	narks	: Bill	to AE	S							
Date:	Time:	Relinquish	ed by:	Reconved by:	on-		Time 8737												
		· · · · · · · · ·						****	. 14 991	L. A	4		 ***					· ·	



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

October 11, 2017

Corwin Lameman Animas Environmental Services 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281

FAX (505) 324-2022

RE: Hilcorp San Juan 27-5 Unit 3

OrderNo.: 1710491

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/10/2017 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 qualifiers 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 1710491

Date Reported: 10/11/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: Hilcorp San Juan 27-5 Unit 3

Lab ID: 1710491-001

Client Sample ID: SC-4

Collection Date: 10/9/2017 10:43:00 AM

Received Date: 10/10/2017 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/10/2017 10:57:25	AM 34325
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/10/2017 10:57:25	AM 34325
Surr: DNOP	94.2	70-130	%Rec	1	10/10/2017 10:57:25	AM 34325
EPA METHOD 8015D: GASOLINE RAN	IGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	2.9	mg/Kg	1	10/10/2017 9:18:04 A	M G46228
Surr: BFB	92.2	54-150	%Rec	1	10/10/2017 9:18:04 A	M G46228
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.014	mg/Kg	1	10/10/2017 9:18:04 A	M B46228
Toluene	ND	0.029	mg/Kg	1	10/10/2017 9:18:04 A	M B46228
Ethylbenzene	ND	0.029	mg/Kg	1	10/10/2017 9:18:04 A	M B46228
Xylenes, Total	ND	0.058	mg/Kg	1	10/10/2017 9:18:04 A	M B46228
Surr: 4-Bromofluorobenzene	99.2	66.6-132	%Rec	1	10/10/2017 9:18:04 A	M B46228

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

Page 2 of 4

1710491

11-Oct-17

Client:

Animas Environmental Services

Project:

Hilcorp San Juan 27-5 Unit 3

Sample ID MB-34325	Samp1	Гуре: М Е	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PB\$	Batcl	h ID: 34	325	F	RunNo: 4	6223				
Prep Date: 10/10/2017	Analysis D	Date: 10)/10/2017	5	SeqNo: 1	471772	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.3	70	130			

Sample ID LCS-34325	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: DI	esel Rang	e Organics	
Client ID: LCSS	Batcl	n ID: 34	325	F	RunNo: 4	6223				
Prep Date: 10/10/2017	Analysis D)ate: 10	0/10/2017	\$	SeqNo: 1	472009	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.7	73.2	114			
Sur: DNOP	4.7		5.000		93.5	70	130			

Sample ID	1710491-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID:	SC-4	Batch	ID: 34	325	F	RunNo: 4	6223							
Prep Date: 10/10/2017		Analysis Date: 10/10/2017			SeqNo: 1472268			Units: mg/k						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range O	Organics (DRO)	52	9.9	49.36	0	106	55.8	122						
Surr: DNOP		4.9		4.936		99.9	70	130						

Sample ID 1710491-001AMS	D SampT	ype: MS	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: SC-4	Batch	1D: 34	325	F	RunNo: 4	6223								
Prep Date: 10/10/2017	Analysis Date: 10/10/2017			SeqNo: 1472407			Units: mg/h							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range Organics (DRO)	48	9.3	46.51	0	103	55.8	122	8.73	20					
Surr: DNOP	4.7		4.651		100	70	130	0	0					

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Ε Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710491

11-Oct-17

Client: Project: Animas Environmental Services

Hilcorp San Juan 27-5 Unit 3

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Batch ID: G46228

PQL

RunNo: 46228

Prep Date:

Analysis Date: 10/10/2017

SeqNo: 1472358

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO)

ND

Result

HighLimit

%RPD **RPDLimit**

970

1000

96.6

150

Surr: BFB

SampType: LCS

PQL

5.0

5.0

TestCode: EPA Method 8015D: Gasoline Range

Sample ID 2.5UG GRO LCS Client ID: LCSS

Batch ID: G46228

SPK Ref Val

SPK value SPK Ref Val %REC LowLimit

RunNo: 46228

76.4

54

54

150

Qual

Qual

Prep Date: Analyte

Analysis Date: 10/10/2017

SeqNo: 1472359

Units: mg/Kg

Gasoline Range Organics (GRO)

Result 28 SPK value 25.00

1000

%REC LowLimit 112

HighLimit 125

%RPD **RPDLimit**

Sum: BFB

Sample ID 1710491-001AMS

SampType: MS

1000

TestCode: EPA Method 8015D: Gasoline Range

SC-4

Client ID:

Batch ID: G46228

Analysis Date: 10/10/2017

PQL

2.9

RunNo: 46228 SeqNo: 1472360

105

Units: mg/Kg

Result

14.44

SPK value SPK Ref Val %REC 113

LowLimit HighLimit 77.8

%RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Prep Date:

16 610 577.4

14.44

577.4

SPK value SPK Ref Val

106

0

128 54 150

Sample ID 1710491-001AMSD

Client ID: SC-4 SampType: MSD Batch ID: G46228

PQL

2.9

TestCode: EPA Method 8015D: Gasoline Range RunNo: 46228

%REC

Units: mg/Kg

0.603

0

Analyte Gasoline Range Organics (GRO)

Prep Date:

Surr: BFB

Result 16

590

Analysis Date: 10/10/2017

SegNo: 1472361

113

103

77.8

54

LowLimit

HighLimit

128

150

%RPD

RPDLimit 20

0

Page 3 of 4

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н Not Detected at the Reporting Limit ND
- Practical Quanitative Limit % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- j Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710491

11-Oct-17

Client: **Project:** **Animas Environmental Services**

Hilcorp San Juan 27-5 Unit 3

Sample ID RB	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batc	6228	F	RunNo: 4	6228							
Prep Date:	Analysis Date: 10/10/2017			5	SeqNo: 1	472376	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132					

Sample ID 100NG BTEX LO	CS Samp	Гуре: LC	s	Tes	tCode: E					
Client ID: LCSS	Batc	Batch ID: B46228 RunNo: 46228								
Prep Date:	Analysis [Date: 10)/10/2017	5	SeqNo: 1	472377	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.0	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

RLReporting Detection Limit

W Sample container temperature is out of limit as specified Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAY: 505-345-4107

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

Sample Log-In Check List

Client Na	me:	Animas En	rironmental	Work Order Num	nber: 17104	191		RcptN	o: 1
Received	By:	Anne Tho	me	10/10/2017 7:10:0	0 AM		Am S. Am S.	-	
Complete	d By:	Anne Tho	me	10/10/2017 7:33:4	O AM		am It	-	
Reviewed	Ву:	JA.		10/10/17					
Chain of	Cust	tody							
1. Custo	dy seal	is intact on s	ample bottles?		Yes		No 🗆	Not Present]
2. Is Cha	in of C	ustody comp	lete?		Yes	\mathbf{V}	No 🗆	Not Present]
3. How w	vas the	sample deliv	vered?		Cour	<u>ler</u>			
<u>Log in</u>									
4. Was a	an atte	mpt made to	cool the sample	s?	Yes	✓	No 🗆	NA [
5. Were	ali san	Iples receive	d at e temperati	are of >0° C to 6.0°C	Yes	V	No 🗆	NA 🗆	
6. Samp	le(s) in	proper conti	ainer(s)?		Yes	Ø	No 🗆		
7. Suffici	ent sar	mple volume	for indicated tes	rt(s)?	Yes	V	No 🗆		
8. Are sa	mples	(except VOA	and ONG) proj	perly preserved?	Yes	\checkmark	No 🗆	•	
9. Was p	reserv	ative added t	o bottles?		Yes		No 🗹	NA C)
10.VOA v	ials ha	ve zero head	Ispace?		Yes		No 🗆	No VOA Vials)
11. Were	any sa	mple contair	ers received br	oken?	Yes		No 🗹	# of preserved	
40 -							 . \Box	bottles checked	
	•	ork match bo ancles on ch	ottle labels? nain of custody)		Yes	MZ)	No ∐	for pH:	2 or >12 unless noted)
•	-		ntified on Chain	of Custody?	Yes	lacksquare	No 🗆	Adjusted?	
14. Is it cla	ear whe	at analyses v	ere requested?		Yes	lacksquare	No 🗆		
			le to be met? authorization.)		Yes	V	No 🗆	Checked by	
()									
Special I	landi	ing (if apı	olicable)		•				
16. Was c	Cent no	otified of all d	Iscrepancies wit	h this order?	Yes		No 🗆	NA 🗹	<u>l</u>
F	Person	Notified:		Dat	» [
	By Who	om:		Vla	: eMa	di 🗆	Phone 🗌 Fax	in Person	
	Regard				222-				
	Client I	nstructions:							
17. Addition	onal re	marks:							
18. <u>Cools</u>			ا سیما	بدر ها درداده	عدما		6 1 4 5	1	
1	oler No	Temp ℃		Seal Intact Seal No	Seal Da	TOE	Signed By	1	
I,								1	

Chain-of-Custody Record			Turn-Around Time:				HALL ENVIRONMENTAL													
Client: Animas Environmental Services, LLC				☐ Standard	X Rush_	SAME DAY	ANALYSIS LABORATORY													
			*···	Project Name													. •			
Mailing Ad	ldress:	604 W	Pinon St.	Hilcom	San Juan 27	-5 Unit 3	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
			gton, NM 87401	Project #:				Tel. 505-345-3975 Fax 505-345-4107												
Phone #:_	505-564			1					<u> </u>	010-0				eques		107				
			nimasenvironmental.com	Project Manag	ger:											\top	Т			
QA/QC Package: X Standard				C. Lamema	n/E. McNally	,	15									!		; 		
Accreditat		☐ Other		Sampler: CL	. (1.7/e) - (1.6/e)	SENT SE		10) - 80												
□ EDD (T					ad line 7/15	V278-178-178-50P)/ME											Z	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAT NO	BTEX - 8021B	TPH (GRO/DRO/MRO) - 8015					•						Air Bubbles (Y or N)	
10/9/17	10:43	SOIL	SC-4	1 - MeOH Kit 1 - 4 oz jar	cool	751	X	х										Ÿ		
					<u> </u>															
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								_			<u> </u>					\perp				
																	$oldsymbol{\perp}$	<u> </u>	_	
							<u> </u>									Щ	<u> </u>			
Date:	Time:	Relinquish	ed by:	Received by:	1		l	narks	: Bill t	AES.										
10/9/19	1740		-	Vilt 1	Jald	10/9/11/11/0														
Date:	Time:	Relinquish	ed by. ^D	Received by		Date Time														
10/9/17	1944	}		1 / Ihn	1/1	1011011 1116								•						