



PO Box 61229  
Houston, TX 77208

1111 Travis Street  
Houston, TX 77002  
Phone: 713/209-2400  
Fax 713/209-2478  
harvestmidstream.com

January 10, 2020

## EXTENSION REQUEST

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115

NCS1931842879

CS 1/13/20

A handwritten signature in black ink, appearing to read "Cory Smith".

Via electronic mail to: [cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

**Re: Request for an Extension of Time  
Trunk S Release (June 2019)  
Unit I, Section 7, T25N, R3W  
Rio Arriba County, New Mexico**

Dear Mr. Smith:

This letter serves as a request for extension to complete the site delineation and remediation plan for the Harvest Midstream (Harvest) - Trunk S remediation site. On behalf of Harvest, Animas Environmental Services (AES) was onsite with MW Electric on November 19-20, 25-26, 2019, to perform site delineation activities.

MW Electric was able to complete one boring (SB-1) over the 4 days onsite at a total depth of 60 feet below ground surface (bgs). The soil samples collected from the boring were analyzed by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Copies of the laboratory reports from Hall are attached.

**Table 1. Soil Analytical and Field Data**

Analyte	SB-1 @ 8'	SB-1 @ 15'	SB-1 @ 50'	SB-1 @ 60'
OVM data (ppm)	87.2	3,426	2,249	129.2
Field Chloride (mg/L)	40	40	40	---
Benzene (mg/Kg)	0.054	14	0.029	<0.024
BTEX (mg/Kg)	1.984	809	1.299	<0.219
TPH-GRO (mg/Kg)	11	13,000	37	<4.9
TPH-DRO (mg/Kg)	<9.4	3,000	20	<9.2
TPH-MRO (mg/Kg)	<47	<250	<46	<46

The boring was completed as a soil vapor extraction (SVE) well, with 10 feet of screen terminating at 50 feet bgs. A soil boring log with SVE construction details is attached.

**From:** [Smith, Cory, EMNRD](#)  
**To:** ["Kijun Hong"](#)  
**Cc:** [Eddie Hubbert](#); [McNally, Elizabeth](#)  
**Subject:** RE: Trunk S - Request for Extension  
**Date:** Monday, January 13, 2020 9:45:00 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)

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Kijun,

Harvest has continually been out of compliance on this site and have not met any of the time requirement of 19.15.29 NMAC. However, the OCD has approved this time extension request due to site access/winter conditions OCD District III will not approve another extension for weather/driller availability. The site must be FULLY delineated as detailed in 19.15.29.11 NMAC and the Site Characterization and Remediation plan must be submitted to the OCD portal no later than April 30, 2020. Please include this time extension approval in your submittal.

Please keep in mind that monitor wells are supposed to be registered with the Office of the State Engineer, and follow all applicable rules etc. Miles Juett is the local Aztec contact and can assist Harvest with any requirements etc.

The extension request has been scanned into the incident# NCS1931842879. Please make sure you include the incident# on all future submittals and communication (This includes emails)

Cory Smith  
Environmental Specialist  
Oil Conservation Division  
Energy, Minerals, & Natural Resources  
1000 Rio Brazos, Aztec, NM 87410  
(505)334-6178 ext 115  
[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

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**From:** Kijun Hong <[khong@harvestmidstream.com](mailto:khong@harvestmidstream.com)>  
**Sent:** Friday, January 10, 2020 1:57 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** Eddie Hubbert <[ehubbert@animasenvironmental.com](mailto:ehubbert@animasenvironmental.com)>; McNally, Elizabeth <[emcnally@animasenvironmental.com](mailto:emcnally@animasenvironmental.com)>  
**Subject:** [EXT] Trunk S - Request for Extension

Cory,

Please find attached the official request for extension for the Harvest Midstream – Trunk S remediation site.

Please let us know if there is anything else you need regarding this matter.

Thank You,  
Kijun

PO Box 61229  
Houston, TX 77208

1111 Travis Street  
Houston, TX 77002  
Phone: 713/209-2400  
Fax 713/209-2478  
harvestmidstream.com

Due to weather delays and mechanical issues with the drill rig, AES and Harvest concluded that an alternate drilling contractor would need to be utilized to complete the delineation work. AES scheduled Rodgers & Co. Drilling (Rodgers) for the week of January 6, 2020. On December 30, 2019, AES personnel visited the site to re-mark the drilling locations for NM One Call. However, the site was inaccessible due to heavy snow. Another winter storm moved through the area last week depositing more snow.

Currently, we are unable to mark the site for one call, and Rodgers has rescheduled the work for February or March 2020, as soon as site conditions allow access for the delineation drilling.

At this time Harvest would like to request an extension of time until April 30, 2020, to complete the work and associated reporting.

If you have any questions regarding the scheduled site activities, please do not hesitate to contact me at (505-632-4475), Eddie Hubbart (AES) at (505-401-5323), or Elizabeth McNally (AES) at (505-564-2281).

Sincerely,



Kijun Hong  
Harvest Midstream Company  
*khong@harvestmidstream.com*

Cc: Edward Hubbert  
Project Manager  
Animas Environmental Services

Attachments: Soil Boring Log, HEAL Laboratory Reports



animas  
environmental  
services  
Farmington, NM • Durango, CO  
animasenvironmental.com

## LOG OF: SB-1

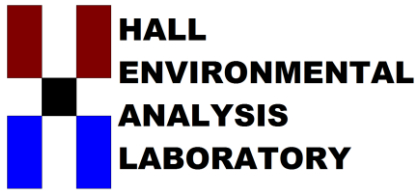
(Page 1 of 1)

Harvest Midstream  
Trunk S Release  
NE1/4 SE1/4, Sec. 7, T25N, R3W  
Rio Arriba County, New Mexico  
N36.41180, -107.18085

Date Started : 11/19/19  
Date Completed : 11/25/19  
Hole Diameter : 7.25 in.  
Drilling Method : C.M.E 75 H.S.A.  
Sampling Method : 1.5" x 24" Split Spoon

Latitude :  
Longitude :  
Logged By : E. Hubbert

Depth in Feet	Surf. Elev. 7062	USCS	GRAPHIC	DESCRIPTION	PID (ppm)	Chlorides (mg/L)
0	7062	SP		POORLY GRADED SAND, Tan, Fine Grained, Firm, Sagebrush Roots, Trace CaCO3 deposits, Moist, Heavy Hydrocarbon Odor, No Staining,	95.8 384.4 1,017 124.1	40
5	7057					
10	7052					
15	7047	SP		POORLY GRADED SAND, Tan, Fine Grained, Loose, Trace CaCO3 deposits, Moist, Heavy Hydrocarbon Odor, No Staining,	3,426	40
20	7042	SW		WELL GRADED SAND, Brown, Coarse, Soft, Interbedded Gravel, Slight Black Staining at 23 feet, Very Heavy Hydrocarbon Odor.	1,626	60
25	7037				2,012	40
30	7032				1,681	40
35	7027				1,662	60
40	7022	SW		WELL GRADED SAND, Brown, Coarse, Soft, Less Hydrocarbon Odor, No Staining	1,105	40
45	7017			WELL GRADED SAND, Brown, Coarse, Soft, Moderate Hydrocarbon Odor, No Staining	1,092	60
50	7012	SP		POORLY GRADED SAND, Very Hard, Brown, Fine to Medium, Dry, Cemented, CaCO3 deposits, Slight Hydrocarbon Odor, No Staining.	1,092	60
				TOTAL DEPTH.	2,249	NA
55	7007			OFFSET HOLE - PUSHED AUGER FROM 0 TO 50 FEET. SILTY CLAY, Dark Brown, Firm, Moist, No Odor or Staining.	406	40
60	7002			TOTAL DEPTH AT 60 FEET.	129.2	NA
65						



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

December 17, 2019

Elizabeth McNally  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX: (505) 324-2022

RE: Harvest Midstream Trunk S

OrderNo.: 1911A22

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/21/2019 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](http://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 #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1911A22**Date Reported: **12/17/2019****CLIENT:** Animas Environmental Services**Client Sample ID:** SB1@8'**Project:** Harvest Midstream Trunk S**Collection Date:** 11/19/2019 9:32:00 AM**Lab ID:** 1911A22-001**Matrix:** SOIL**Received Date:** 11/21/2019 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	11/25/2019 5:35:32 PM	49000
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/25/2019 12:55:07 PM	48972
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/25/2019 12:55:07 PM	48972
Surr: DNOP	94.2	70-130		%Rec	1	11/25/2019 12:55:07 PM	48972
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	11	4.8		mg/Kg	1	11/23/2019 1:01:16 AM	48965
Surr: BFB	122	77.4-118	S	%Rec	1	11/23/2019 1:01:16 AM	48965
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.054	0.024		mg/Kg	1	11/23/2019 1:01:16 AM	48965
Toluene	0.44	0.048		mg/Kg	1	11/23/2019 1:01:16 AM	48965
Ethylbenzene	0.090	0.048		mg/Kg	1	11/23/2019 1:01:16 AM	48965
Xylenes, Total	1.4	0.096		mg/Kg	1	11/23/2019 1:01:16 AM	48965
Surr: 4-Bromofluorobenzene	91.1	80-120		%Rec	1	11/23/2019 1:01:16 AM	48965

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1911A22

Date Reported: 12/17/2019

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SB1@15'

**Project:** Harvest Midstream Trunk S

**Collection Date:** 11/19/2019 12:38:00 PM

**Lab ID:** 1911A22-002

**Matrix:** SOIL

**Received Date:** 11/21/2019 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Fluoride	3.7	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Chloride	14	7.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Bromide	ND	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Sulfate	ND	7.5		mg/Kg	5	11/26/2019 8:52:36 PM	49047
<b>RESISTIVITY AND EC SOIL</b>							Analyst: <b>JRR</b>
Conductivity	639	1.00		µmhos/c	1	12/2/2019 1:00:00 PM	49071
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>pmf</b>
Calcium	7300	250		mg/Kg	10	12/11/2019 5:28:18 PM	49088
Magnesium	8100	250		mg/Kg	10	12/11/2019 5:28:18 PM	49088
Potassium	3400	500		mg/Kg	10	12/11/2019 5:28:18 PM	49088
Sodium	870	250		mg/Kg	10	12/11/2019 5:28:18 PM	49088
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	3000	50		mg/Kg	5	11/27/2019 10:57:27 AM	48972
Motor Oil Range Organics (MRO)	ND	250	D	mg/Kg	5	11/27/2019 10:57:27 AM	48972
Surr: DNOP	125	70-130		%Rec	5	11/27/2019 10:57:27 AM	48972
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	13000	460		mg/Kg	100	11/25/2019 11:19:50 AM	48965
Surr: BFB	381	77.4-118	S	%Rec	100	11/25/2019 11:19:50 AM	48965
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	14	0.46		mg/Kg	20	11/23/2019 1:24:03 AM	48965
Toluene	180	4.6		mg/Kg	100	11/25/2019 11:19:50 AM	48965
Ethylbenzene	35	0.92		mg/Kg	20	11/23/2019 1:24:03 AM	48965
Xylenes, Total	580	9.2		mg/Kg	100	11/25/2019 11:19:50 AM	48965
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	100	11/25/2019 11:19:50 AM	48965

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1911A22

Date Reported: 12/17/2019

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SB1@50'

**Project:** Harvest Midstream Trunk S

**Collection Date:** 11/19/2019 11:35:00 AM

**Lab ID:** 1911A22-003

**Matrix:** SOIL

**Received Date:** 11/21/2019 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	11/25/2019 6:12:46 PM	49000
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	20	9.3		mg/Kg	1	11/25/2019 1:13:46 PM	48972
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/25/2019 1:13:46 PM	48972
Surr: DNOP	98.2	70-130		%Rec	1	11/25/2019 1:13:46 PM	48972
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	37	4.9		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Surr: BFB	299	77.4-118	S	%Rec	1	11/23/2019 1:46:52 AM	48965
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.029	0.025		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Toluene	0.17	0.049		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Xylenes, Total	1.1	0.098		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	11/23/2019 1:46:52 AM	48965

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		





## ANALYTICAL SUMMARY REPORT

December 04, 2019

Hall Environmental  
4901 Hawkins St NE Ste D  
Albuquerque, NM 87109-4372

Work Order: B19112287

Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 11/26/2019 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B19112287-001	1911A22-002B, SB1 @ 15 Feet	11/19/19 12:38	11/26/19	Soil	Alkalinity, Water Extractable DI Water Soil Extract ASA10-3

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

*Sonya Mallett*  
Soil Department Supervisor

Digitally signed by  
Sonya Mallett  
Date: 2019.12.04 13:49:24 -07:00



Trust our People. Trust our Data.

Billings, MT 800.735.4489 • Casper, WY 888.235.0515  
Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

**Client:** Hall Environmental  
**Project:** Not Indicated  
**Lab ID:** B19112287-001  
**Client Sample ID:** 1911A22-002B, SB1 @ 15 Feet

**Report Date:** 12/04/19  
**Collection Date:** 11/19/19 12:38  
**Date Received:** 11/26/19  
**Matrix:** Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>WATER EXTRACTABLE CONSTITUENTS</b>							
Alkalinity, 1:2	256	mg/kg		4		ASA10-3	12/03/19 15:13 / gie

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



Trust our People. Trust our Data.

Billings, MT 800.735.4489 • Casper, WY 888.235.0515  
Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Hall Environmental

**Work Order:** B19112287

**Report Date:** 12/04/19

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> ASA10-3									Batch: 139748
<b>Lab ID:</b> LCS-139748	Laboratory Control Sample						Run: ORIONVERSASTARPRO_191		12/03/19 14:58
Alkalinity, 1:2	271	mg/kg	4.0	115	70	130			
<b>Lab ID:</b> B19112287-001A DUP	Sample Duplicate						Run: ORIONVERSASTARPRO_191		12/03/19 15:27
Alkalinity, 1:2	256	mg/kg	4.0				0.0	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Trust our People. Trust our Data.

Billings, MT 800.735.4489 • Casper, WY 888.235.0515  
Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

# Work Order Receipt Checklist

Hall Environmental

B19112287

Login completed by: Briana G. Sangiuliano

Date Received: 11/26/2019

Reviewed by: BL2000\gmccartney

Received by: slm

Reviewed Date: 11/27/2019

Carrier name: Return-UPS NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	4.6°C	On Ice	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Contact and Corrective Action Comments:

None



# CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

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

SUB CONTRACTOR		Bil-Energy		COMPANY	Energy Laboratories		PHONE	(800) 735-4489	FAX	(406) 252-6069
ADDRESS		1120 South 27th Street						ACCOUNT #		
CITY STATE ZIP		Billings, MT 59107						EMAIL		

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	ANALYTICAL COMMENTS				
1	1911A22-002B	581@15	40ZGU	Soil	11/19/2019 12:38:00 PM					
						# CONTAINERS	1	Alkalinity in Soil		

319112287

## SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports Please e-mail results to lab@hallenvironmental.com Please return all coolers and blue ice Thank you

Relinquished By	Date	Time	Received By	Date	Time	REPORT TRANSMITTAL DESIRED
Relinquished By	Date	Time	Received By	Date	Time	HARD COPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE <input type="checkbox"/>
Relinquished By	Date	Time	Received By	Date	Time	FOR LAB USE ONLY
TAT			RUSH			Temp of samples <input type="checkbox"/> Attempt to cool <input type="checkbox"/>
Comments						

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A22

17-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>MB-49000</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBS</b>		Batch ID: <b>49000</b>		RunNo: <b>64777</b>						
Prep Date: <b>11/25/2019</b>		Analysis Date: <b>11/25/2019</b>		SeqNo: <b>2220067</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Bromide	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								

Sample ID: <b>LCS-49000</b>		SampType: <b>LCS</b>		TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSS</b>		Batch ID: <b>49000</b>		RunNo: <b>64777</b>						
Prep Date: <b>11/25/2019</b>		Analysis Date: <b>11/25/2019</b>		SeqNo: <b>2220069</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.30	1.500	0	95.4	90	110			
Chloride	14	1.5	15.00	0	95.5	90	110			
Nitrogen, Nitrite (As N)	2.8	0.30	3.000	0	92.6	90	110			
Bromide	7.3	0.30	7.500	0	97.5	90	110			
Nitrogen, Nitrate (As N)	7.6	0.30	7.500	0	101	90	110			

Sample ID: <b>MB-49047</b>		SampType: <b>mblk</b>		TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBS</b>		Batch ID: <b>49047</b>		RunNo: <b>64785</b>						
Prep Date: <b>11/26/2019</b>		Analysis Date: <b>11/26/2019</b>		SeqNo: <b>2221557</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	1.5								

Sample ID: <b>LCS-49047</b>		SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSS</b>		Batch ID: <b>49047</b>			RunNo: <b>64785</b>					
Prep Date: <b>11/26/2019</b>		Analysis Date: <b>11/26/2019</b>			SeqNo: <b>2221558</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	28	1.5	30.00	0	94.6	90	110			

### 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 Quantitative 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 Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A22

17-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>LCS-48972</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>48972</b>				RunNo: <b>64745</b>					
Prep Date: <b>11/22/2019</b>	Analysis Date: <b>11/25/2019</b>				SeqNo: <b>2218776</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: <b>MB-48972</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID: <b>PBS</b>	Batch ID: <b>48972</b>				RunNo: <b>64745</b>					
Prep Date: <b>11/22/2019</b>	Analysis Date: <b>11/25/2019</b>				SeqNo: <b>2218778</b>	Units: <b>mg/Kg</b>				
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	9.3		10.00		93.0	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 Quantitative 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 Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A22

17-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>MB-48965</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>48965</b>		RunNo: <b>64725</b>							
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>		SeqNo: <b>2217895</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	77.4	118			

Sample ID: <b>LCS-48965</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>48965</b>		RunNo: <b>64725</b>							
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>		SeqNo: <b>2217896</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	80	120			
Surr: BFB	1200		1000		115	77.4	118			

### 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 Quantitative 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 Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A22

17-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>MB-48965</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>48965</b>	RunNo: <b>64725</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217930</b>	Units: <b>mg/Kg</b>							
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	0.89		1.000		88.8	80	120			

Sample ID: <b>LCS-48965</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>48965</b>	RunNo: <b>64725</b>								
Prep Date: <b>11/21/2019</b>	Analysis Date: <b>11/22/2019</b>	SeqNo: <b>2217931</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.8	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.1	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	80	120			

### 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 Quantitative 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 Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A22

17-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>MB-49088</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49088</b>	RunNo: <b>65116</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/11/2019</b>	SeqNo: <b>2234329</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	25								
Magnesium	ND	25								
Potassium	ND	50								
Sodium	ND	25								

Sample ID: <b>LCS-49088</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49088</b>	RunNo: <b>65116</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/11/2019</b>	SeqNo: <b>2234331</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	2500	25	2500	0	100	80	120			
Magnesium	2400	25	2500	0	97.7	80	120			
Potassium	2400	50	2500	0	96.4	80	120			
Sodium	2400	25	2500	0	96.0	80	120			

### 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 Quantitative 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 Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911A22

17-Dec-19

**Client:** Animas Environmental Services

**Project:** Harvest Midstream Trunk S

Sample ID: <b>1911A22-002ADUP</b>		SampType: <b>DUP</b>		TestCode: <b>Resistivity and eC Soil</b>						
Client ID: <b>SB1@15'</b>		Batch ID: <b>49071</b>		RunNo: <b>64853</b>						
Prep Date: <b>12/2/2019</b>		Analysis Date: <b>12/2/2019</b>		SeqNo: <b>2223523</b>		Units: <b>µmhos/cm</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	683	1.00						6.62	20	

### 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 Quantitative 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 Limit



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: 1911A22

RcptNo: 1

Received By: Yazmine Garduno 11/21/2019 8:37:00 AM

Completed By: Leah Baca 11/21/2019 11:04:39 AM

Reviewed By:

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:  
( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: YG 11/21/19

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				



# Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address:

P.O. Box 8

Farmington, NM 87499-0008

Phone #: 505.564.2281

email or Fax#: emcnally@animasenvironmental.com

QA/QC Package:

☒ Standard

☐ Level 4 (Full Validation)

Accreditation: ☐ AZ Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Project Manager:

Elizabeth McNally

Sampler: *Eddie Hubbert*

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including on): 0.9-0.203 = 0.5

Container Type and #

Preservative Type

HEAL No.

Sample Name

Date Time Matrix

Date

Time

Matrix

Sample Name

Date Time Matrix

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*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

December 24, 2019

Elizabeth McNally  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Harvest Midstream Trunk S

OrderNo.: 1911D02

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/28/2019 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](http://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 #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1911D02

Date Reported: 12/24/2019

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SB-1 @ 60'

**Project:** Harvest Midstream Trunk S

**Collection Date:** 11/26/2019 2:00:00 PM

**Lab ID:** 1911D02-001

**Matrix:** SOIL

**Received Date:** 11/28/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/5/2019 2:59:33 PM	49174
<b>RESISTIVITY AND EC SOIL</b>							Analyst: <b>JMT</b>
Conductivity	643	1.00		µmhos/c	1	12/9/2019 3:01:00 PM	49221
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/3/2019 3:41:51 PM	49089
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/3/2019 3:41:51 PM	49089
Surr: DNOP	133	70-130	S	%Rec	1	12/3/2019 3:41:51 PM	49089
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Surr: BFB	83.0	77.4-118		%Rec	1	12/3/2019 10:33:53 AM	49082
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Toluene	ND	0.049		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Ethylbenzene	ND	0.049		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Xylenes, Total	ND	0.097		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	12/3/2019 10:33:53 AM	49082

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911D02

24-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>MB-49174</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>49174</b>	RunNo: <b>64987</b>
Prep Date: <b>12/5/2019</b>	Analysis Date: <b>12/5/2019</b>	SeqNo: <b>2228955</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-49174</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>49174</b>	RunNo: <b>64987</b>
Prep Date: <b>12/5/2019</b>	Analysis Date: <b>12/5/2019</b>	SeqNo: <b>2228956</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 96.7 90 110

### 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 Quantitative 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 Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911D02

24-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>LCS-49089</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>49089</b>		RunNo: <b>64876</b>							
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>		SeqNo: <b>2224924</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.9	63.9	124			
Surr: DNOP	4.1		5.000		82.7	70	130			

Sample ID: <b>MB-49089</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>49089</b>		RunNo: <b>64876</b>							
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>		SeqNo: <b>2224925</b>		Units: <b>mg/Kg</b>					
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	8.5		10.00		85.3	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 Quantitative 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 Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911D02

24-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>mb-49082</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49082</b>	RunNo: <b>64903</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>	SeqNo: <b>2225312</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.3	77.4	118			

Sample ID: <b>lcs-49082</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49082</b>	RunNo: <b>64903</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>	SeqNo: <b>2225313</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	80	120			
Surr: BFB	970		1000		96.8	77.4	118			

Sample ID: <b>1911d02-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SB-1 @ 60'</b>	Batch ID: <b>49082</b>	RunNo: <b>64903</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>	SeqNo: <b>2225315</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.65	0	99.8	69.1	142			
Surr: BFB	930		986.2		94.6	77.4	118			

Sample ID: <b>1911d02-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SB-1 @ 60'</b>	Batch ID: <b>49082</b>	RunNo: <b>64903</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>	SeqNo: <b>2225316</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.25	0	99.9	69.1	142	1.62	20	
Surr: BFB	930		969.9		96.2	77.4	118	0	0	

### Qualifiers:

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H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative 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 Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911D02

24-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: <b>mb-49082</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49082</b>	RunNo: <b>64903</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>	SeqNo: <b>2225359</b>	Units: <b>mg/Kg</b>							
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	1.1		1.000		110	80	120			

Sample ID: <b>LCS-49082</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49082</b>	RunNo: <b>64903</b>								
Prep Date: <b>12/2/2019</b>	Analysis Date: <b>12/3/2019</b>	SeqNo: <b>2225360</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

### 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 Quantitative 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 Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1911D02

24-Dec-19

Client: Animas Environmental Services

Project: Harvest Midstream Trunk S

Sample ID: 1911D02-001ADUP		SampType: DUP		TestCode: Resistivity and eC Soil						
Client ID: SB-1 @ 60'		Batch ID: 49221		RunNo: 65034						
Prep Date: 12/9/2019		Analysis Date: 12/9/2019		SeqNo: 2230953		Units: µmhos/cm				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	647	1.00						0.682	20	

### 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 Quantitative 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 Limit



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: 1911D02

RcptNo: 1

Received By: Andy Freeman

11/28/2019 10:00:00 AM

Completed By: Erin Melendrez

11/30/2019 11:22:05 AM

Reviewed By:

DM 12/2/19

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: ENM 12/2/19

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

