

# **Ascent Energy Emperor Oil Co Federal Gas B Com #001 Closure Report**

**Section 28, T20S, R30E  
Lea County, New Mexico**

**2RP-5409  
Revised  
September 16, 2019**

**HO8C7-190917-C-1440**



**Prepared for:  
Ascent Energy  
1125 17<sup>th</sup> Street  
Denver, CO 80202**

**By:**

**Safety & Environmental Solutions, Inc.  
703 East Clinton Street  
Hobbs, New Mexico 88240  
(575) 397-0510**

## TABLE OF CONTENTS

<b>I. COMPANY CONTACTS.....</b>	<b>4</b>
<b>IV. WORK PERFORMED .....</b>	<b>4</b>
<b>V. CONCLUSION .....</b>	<b>5</b>
<b>VI. FIGURES &amp; APPENDICES .....</b>	<b>7</b>
Figure 1 – Vicinity Map.....	8
Figure 2 – Site Plan .....	5
Appendix A – Analytical Results .....	6
Appendix B – Site Photographs .....	7
Appendix C – C-141 .....	8
Appendix D – Groundwater .....	10
Appendix E – Seed Tag .....	11

## I. Company Contacts

Representative	Company	Telephone	E-mail
Dean Gimbel	Ascent Energy	720-710-8995	dgimbel@ascentenergy.us
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

## II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by

Ascent Energy, to assess a spill area on the Emperor Oil Co Federal Gas B Com #001. According to the C-141: the cause of release, was due to shallow hole in the tuning the caused a leak in the packing on the stuffing box. A Trimble Juno 3B handheld was used to map the spill area. There was overspray to the pasture area on the North side of the location. (Figure 2). Approximately 9,849 square yards of surface area was impacted.

## III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 132' bgs. Thereby, posing no eminent threat or danger to life forms in the area (Appendix B).

## IV. Work Performed

On March 29, 2019 SESI personnel at the requirement of BLM representative, Jim Amos, visited the site for treatment of the pasture area. SESI personnel flagged five (5) areas that required treatment and began the application of Micro Blazing for treatment of the overspray on the impacted pasture area.

On April 15, 2019 SESI personnel revisited the site, assessing the spill and over sprayed area in order to determine sample point positions for adequate horizontal and vertical delineation. Fifteen (15) Auger Hole positions were assigned, mapped, and advanced to depths of 1 ft. bgs. Soil samples were grabbed at surface, at one-foot increments, field tested, and packaged for laboratory confirmation. All samples were properly packaged, labeled, preserved, and transported to Hall Laboratories via Chain of Custody for analyses. The following constituencies were analyzed:

Chloride (CI Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The table below is a recap and tabulation of the results from the Hall Laboratory analyses for ease of reference (Appendix C):

Sample ID	Chloride EPA Method 300 Anions	DRO EPA Method 8015	GRO EPA Method 8015	BTEX EPA Method 8021
AH-1 Surface	60	21	ND	ND
AH-1 @ 1ft	ND	ND	ND	ND
AH-2 Surface	ND	ND	ND	ND
AH-2 @ 1ft	ND	ND	ND	ND
AH-3 Surface	ND	ND	ND	ND
AH-3 @ 1ft	ND	ND	ND	ND
AH-4 Surface	ND	ND	ND	ND
AH-4 @ 1ft	ND	11	ND	ND
AH-5 Surface	120	200	ND	ND
AH-5 @ 1ft	ND	15	ND	ND
AH-6 Surface	120	ND	230	ND
AH-6 @ 1ft	72	29	ND	ND
AH-7 Surface	110	160	ND	ND
AH-7 @ 1ft	ND	29	ND	ND
AH-8 Surface	ND	28	ND	ND
AH-8 @ 1ft	ND	ND	ND	ND
AH-9 Surface	ND	17	ND	ND
AH-9 @ 1ft	ND	ND	ND	ND
AH-10 Surface	ND	33	ND	ND
AH-10 @1ft	ND	44	ND	ND
AH-11 Surface	ND	43	ND	ND
AH-11 @1ft	ND	42	ND	ND
AH-12 Surface	1400	1200	ND	ND
AH-12 @1ft	230	110	ND	ND
AH-13 Surface	1200	1300	ND	ND
AH-13 @1ft	200	70	ND	ND
AH-14 Surface	1300	1300	ND	ND
AH-14 @1ft	210	76	ND	ND
AH-15 Surface	1500	39	ND	ND
AH-15 @1ft	1500	28000	1900	120

## V. Conclusion

On June 05, 2019 the work plan as it was filed with NMOCD was approved.

On August 09, 2019 SESI personnel, together with equipment and personnel from Custom welding of Hobbs, NM were on site to excavate and remove the impacted soil from the pad and pasture areas respectively. Approximately 400 (four hundred) yards of impacted soil were transported to Lea Landfill (an NMOCD approved facility). Pursuant to DCP Midstream response to New Mexico One Call Clearance; remedial activities were restricted to remain outside there marked lines by a 50 ft. (Figure 2) clearance. SESI personnel field tested and grabbed soil samples from the sidewalls and bottom of excavated areas. The excavated areas, as well as soil sample positions were mapped. All confirmation soil samples were properly packaged, preserved, and transported to Cardinal Laboratories of Hobbs, NM (an NMOCD approved facility) via Chain of Custody, and analyzed for Chlorides (CLSM45000CI-B), Benzene, Toluene, Ethylbenzene, Total

Xylenes (BTEX Method 8021B), Total Petroleum Hydrocarbons (TPH Method 8015M). Please see table below for tabulated results:

Sample ID	BTEX EPA Method 8021	Chloride EPA Method 300 Anions	DRO EPA Method 8015	GRO EPA Method 8015	EXT DRO EPA Method 8015
SP-1 Bottom 1'	<0.300	<16.0	<10.0	<10.0	<10.0
SP-2 Bottom 1'	<0.300	<16.0	18.3	<10.0	<10.0
SP-3 Bottom 1'	<0.300	<16.0	25.2	<10.0	<10.0
SP-4 North Wall	<0.300	<16.0	<10.0	<10.0	<10.0
SP-5 East Wall	<0.300	<16.0	<10.0	<10.0	<10.0
SP-6 West Wall	<0.300	<16.0	<10.0	<10.0	<10.0
SP-7 South Wall	<0.300	<16.0	<10.0	<10.0	<10.0
SP-8 Bottom 1'	<0.300	<16.0	<10.0	<10.0	<10.0
SP-9 Bottom 1'	<0.300	352	<46.9	<10.0	13.7
SP-10 Bottom 1'	<0.300	352	51.1	<10.0	19.6
SP-11 North Wall	<0.300	336	49.1	<10.0	18.3
SP-12 East Wall	<0.300	64.0	<10.0	<10.0	<10.0
SP-13 West Wall	<0.300	48.0	<10.0	<10.0	<10.0
SP-14 South Wall	<0.300	48.0	<10.0	<10.0	<10.0

Based on the recapped soil analyses; the excavated areas were backfilled with clean native topsoil, and fresh base course caliche (a like material for the pad area). The pasture area was restored to dunal features and reseeded with a BLM #2 approved seed mix. The pad area was returned to grade.

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD and BLM requirements respectively.

On September 04, 2019 the NMOCD declined the closure for this incident based on Sample point AH-15 analyses for DRO concentration. AH-15 is located at the wellhead, inside the cellar box at a point where high pressurized lines are present.

On September 06, 2019: pursuant to the NMOCD Spill Rule 19.15.29.13 SESI personnel together with personnel and hydro-vac equipment returned to the site in order to complete the delineation and remediation at AH-15. The interior of the cellar box was hydro-vacced from surface at 1' below surface increments (Appendix B), soil samples grabbed, packaged, preserved, and transported to Hall Laboratories for analyses of Chloride (CL EPA Method 300.0 ANIONS), Total Petroleum Hydrocarbons (TPH EPA Method 8015 M/D), and BTEX (Benzene, Toluene, Ethylbenzene, Xylenes, Total, Method 8021 B). The results are recapped in the following table for ease of reference.

Sample ID	Chloride	DRO	MRO	GRO	BTEX
AH-15 1ft	320	1600	950	ND	ND
AH-15 2ft	2900	200	120	ND	ND

As a result of the soil analyses, we respectfully submit this revised closure report for your consideration and approval.

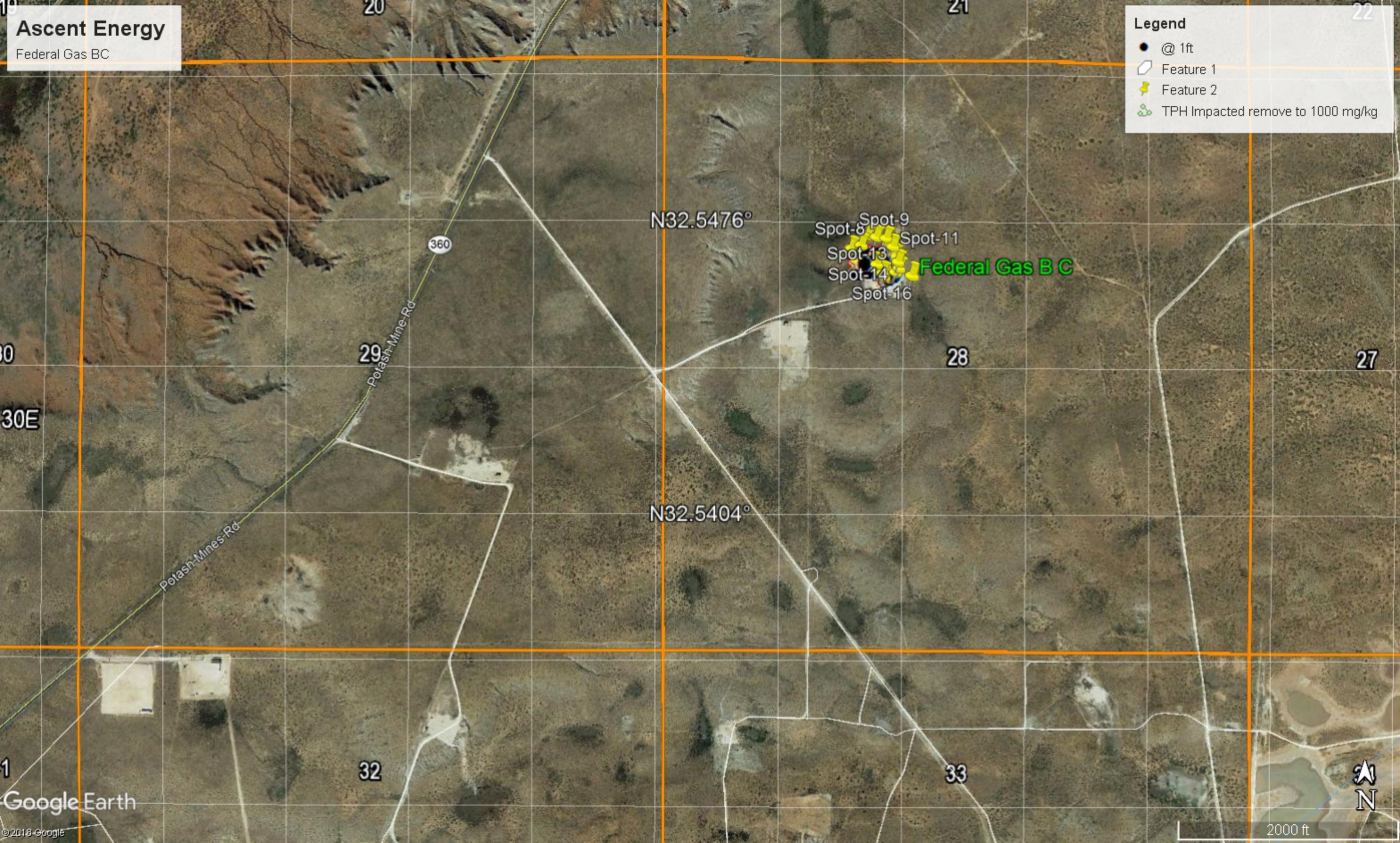
**VI. Figures & Appendices**

Figure 1 – Vicinity Map  
Figure 2 – Site Plan  
Appendix A – Analytical Results  
Appendix B—Site Photographs  
Appendix C – C-141

# **Figure 1**

## **Vicinity Map**





**Legend**

- @ 1ft
- Feature 1
- 📌 Feature 2
- 🌿 TPH Impacted remove to 1000 mg/kg

00  
30E



## **Figure 2**

### **Site Plan**



**Legend**

- DCP Marked Line
- Feature 1
- Sample Point





# **Appendix A**

## **Analytical Results**

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-1 Surface**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 9:50:00 AM**Lab ID:** 1904831-001**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 11:48:41 AM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2019 3:12:11 AM	44384
Surr: BFB	105	70-130		%Rec	1	4/19/2019 3:12:11 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	21	9.6		mg/Kg	1	4/23/2019 10:36:54 PM	44400
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/23/2019 10:36:54 PM	44400
Surr: DNOP	102	70-130		%Rec	1	4/23/2019 10:36:54 PM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	4/19/2019 3:12:11 AM	44384
Toluene	ND	0.049		mg/Kg	1	4/19/2019 3:12:11 AM	44384
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2019 3:12:11 AM	44384
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2019 3:12:11 AM	44384
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	4/19/2019 3:12:11 AM	44384
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/19/2019 3:12:11 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 3:12:11 AM	44384
Surr: Toluene-d8	98.7	70-130		%Rec	1	4/19/2019 3:12:11 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-1 1FT**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 10:00:00 AM**Lab ID:** 1904831-002**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 12:01:05 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2019 3:40:46 AM	44384
Surr: BFB	103	70-130		%Rec	1	4/19/2019 3:40:46 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/22/2019 1:43:20 PM	44400
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/22/2019 1:43:20 PM	44400
Surr: DNOP	75.4	70-130		%Rec	1	4/22/2019 1:43:20 PM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	4/19/2019 3:40:46 AM	44384
Toluene	ND	0.050		mg/Kg	1	4/19/2019 3:40:46 AM	44384
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2019 3:40:46 AM	44384
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2019 3:40:46 AM	44384
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%Rec	1	4/19/2019 3:40:46 AM	44384
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	4/19/2019 3:40:46 AM	44384
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/19/2019 3:40:46 AM	44384
Surr: Toluene-d8	97.3	70-130		%Rec	1	4/19/2019 3:40:46 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-2 Surface**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 10:15:00 AM**Lab ID:** 1904831-003**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 12:13:30 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2019 4:09:18 AM	44384
Surr: BFB	103	70-130		%Rec	1	4/19/2019 4:09:18 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/23/2019 10:58:48 PM	44400
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/23/2019 10:58:48 PM	44400
Surr: DNOP	99.9	70-130		%Rec	1	4/23/2019 10:58:48 PM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 4:09:18 AM	44384
Toluene	ND	0.047		mg/Kg	1	4/19/2019 4:09:18 AM	44384
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2019 4:09:18 AM	44384
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2019 4:09:18 AM	44384
Surr: 1,2-Dichloroethane-d4	98.2	70-130		%Rec	1	4/19/2019 4:09:18 AM	44384
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	4/19/2019 4:09:18 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 4:09:18 AM	44384
Surr: Toluene-d8	96.9	70-130		%Rec	1	4/19/2019 4:09:18 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-2 1FT**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 10:25:00 AM**Lab ID:** 1904831-004**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 12:25:54 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2019 4:37:48 AM	44384
Surr: BFB	105	70-130		%Rec	1	4/19/2019 4:37:48 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/20/2019 8:19:55 AM	44400
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/20/2019 8:19:55 AM	44400
Surr: DNOP	74.8	70-130		%Rec	1	4/20/2019 8:19:55 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	4/19/2019 4:37:48 AM	44384
Toluene	ND	0.050		mg/Kg	1	4/19/2019 4:37:48 AM	44384
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2019 4:37:48 AM	44384
Xylenes, Total	ND	0.10		mg/Kg	1	4/19/2019 4:37:48 AM	44384
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	4/19/2019 4:37:48 AM	44384
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	4/19/2019 4:37:48 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 4:37:48 AM	44384
Surr: Toluene-d8	97.7	70-130		%Rec	1	4/19/2019 4:37:48 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-3 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 10:40:00 AM

**Lab ID:** 1904831-005

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	59		mg/Kg	20	4/20/2019 12:38:18 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 5:06:27 AM	44384
Surr: BFB	105	70-130		%Rec	1	4/19/2019 5:06:27 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/20/2019 8:41:46 AM	44400
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/20/2019 8:41:46 AM	44400
Surr: DNOP	81.9	70-130		%Rec	1	4/20/2019 8:41:46 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 5:06:27 AM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 5:06:27 AM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 5:06:27 AM	44384
Xylenes, Total	ND	0.097		mg/Kg	1	4/19/2019 5:06:27 AM	44384
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	4/19/2019 5:06:27 AM	44384
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	4/19/2019 5:06:27 AM	44384
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/19/2019 5:06:27 AM	44384
Surr: Toluene-d8	96.9	70-130		%Rec	1	4/19/2019 5:06:27 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-3 1 FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 10:45:00 AM

**Lab ID:** 1904831-006

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 12:50:42 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 5:35:02 AM	44384
Surr: BFB	106	70-130		%Rec	1	4/19/2019 5:35:02 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/20/2019 9:03:43 AM	44400
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/20/2019 9:03:43 AM	44400
Surr: DNOP	88.8	70-130		%Rec	1	4/20/2019 9:03:43 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 5:35:02 AM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 5:35:02 AM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 5:35:02 AM	44384
Xylenes, Total	ND	0.097		mg/Kg	1	4/19/2019 5:35:02 AM	44384
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%Rec	1	4/19/2019 5:35:02 AM	44384
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	4/19/2019 5:35:02 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 5:35:02 AM	44384
Surr: Toluene-d8	96.7	70-130		%Rec	1	4/19/2019 5:35:02 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-4 Surface**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 10:55:00 AM**Lab ID:** 1904831-007**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 1:03:06 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 6:03:37 AM	44384
Surr: BFB	104	70-130		%Rec	1	4/19/2019 6:03:37 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	49	9.5		mg/Kg	1	4/20/2019 9:25:46 AM	44400
Motor Oil Range Organics (MRO)	92	47		mg/Kg	1	4/20/2019 9:25:46 AM	44400
Surr: DNOP	104	70-130		%Rec	1	4/20/2019 9:25:46 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 6:03:37 AM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 6:03:37 AM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 6:03:37 AM	44384
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2019 6:03:37 AM	44384
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%Rec	1	4/19/2019 6:03:37 AM	44384
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	4/19/2019 6:03:37 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 6:03:37 AM	44384
Surr: Toluene-d8	96.5	70-130		%Rec	1	4/19/2019 6:03:37 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-4 1Ft**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 11:05:00 AM**Lab ID:** 1904831-008**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 1:15:30 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2019 6:32:07 AM	44384
Surr: BFB	105	70-130		%Rec	1	4/19/2019 6:32:07 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	11	10		mg/Kg	1	4/20/2019 9:47:42 AM	44400
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/20/2019 9:47:42 AM	44400
Surr: DNOP	76.5	70-130		%Rec	1	4/20/2019 9:47:42 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	4/19/2019 6:32:07 AM	44384
Toluene	ND	0.046		mg/Kg	1	4/19/2019 6:32:07 AM	44384
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2019 6:32:07 AM	44384
Xylenes, Total	ND	0.092		mg/Kg	1	4/19/2019 6:32:07 AM	44384
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	4/19/2019 6:32:07 AM	44384
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/19/2019 6:32:07 AM	44384
Surr: Dibromofluoromethane	99.1	70-130		%Rec	1	4/19/2019 6:32:07 AM	44384
Surr: Toluene-d8	98.0	70-130		%Rec	1	4/19/2019 6:32:07 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-5 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 11:15:00 AM

**Lab ID:** 1904831-009

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	120	59		mg/Kg	20	4/20/2019 1:52:44 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2019 7:00:30 AM	44384
Surr: BFB	103	70-130		%Rec	1	4/19/2019 7:00:30 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	200	9.7		mg/Kg	1	4/20/2019 10:09:56 AM	44400
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	4/20/2019 10:09:56 AM	44400
Surr: DNOP	77.0	70-130		%Rec	1	4/20/2019 10:09:56 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 7:00:30 AM	44384
Toluene	ND	0.049		mg/Kg	1	4/19/2019 7:00:30 AM	44384
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2019 7:00:30 AM	44384
Xylenes, Total	ND	0.097		mg/Kg	1	4/19/2019 7:00:30 AM	44384
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	4/19/2019 7:00:30 AM	44384
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/19/2019 7:00:30 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 7:00:30 AM	44384
Surr: Toluene-d8	95.6	70-130		%Rec	1	4/19/2019 7:00:30 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-5 1 FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 11:20:00 AM

**Lab ID:** 1904831-010

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 2:05:09 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 7:29:04 AM	44384
Surr: BFB	105	70-130		%Rec	1	4/19/2019 7:29:04 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	15	9.7		mg/Kg	1	4/20/2019 10:32:04 AM	44400
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/20/2019 10:32:04 AM	44400
Surr: DNOP	99.4	70-130		%Rec	1	4/20/2019 10:32:04 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 7:29:04 AM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 7:29:04 AM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 7:29:04 AM	44384
Xylenes, Total	ND	0.097		mg/Kg	1	4/19/2019 7:29:04 AM	44384
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	1	4/19/2019 7:29:04 AM	44384
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	4/19/2019 7:29:04 AM	44384
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/19/2019 7:29:04 AM	44384
Surr: Toluene-d8	98.6	70-130		%Rec	1	4/19/2019 7:29:04 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-6 Surface**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 11:30:00 AM**Lab ID:** 1904831-011**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	120	60		mg/Kg	20	4/20/2019 2:17:33 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2019 7:57:40 AM	44384
Surr: BFB	103	70-130		%Rec	1	4/19/2019 7:57:40 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	230	9.1		mg/Kg	1	4/23/2019 11:20:51 PM	44400
Motor Oil Range Organics (MRO)	140	45		mg/Kg	1	4/23/2019 11:20:51 PM	44400
Surr: DNOP	105	70-130		%Rec	1	4/23/2019 11:20:51 PM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 7:57:40 AM	44384
Toluene	ND	0.049		mg/Kg	1	4/19/2019 7:57:40 AM	44384
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2019 7:57:40 AM	44384
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2019 7:57:40 AM	44384
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	4/19/2019 7:57:40 AM	44384
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	4/19/2019 7:57:40 AM	44384
Surr: Dibromofluoromethane	106	70-130		%Rec	1	4/19/2019 7:57:40 AM	44384
Surr: Toluene-d8	98.7	70-130		%Rec	1	4/19/2019 7:57:40 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-6 1 FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 11:35:00 AM

**Lab ID:** 1904831-012

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	72	60		mg/Kg	20	4/20/2019 2:29:58 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2019 8:26:16 AM	44384
Surr: BFB	102	70-130		%Rec	1	4/19/2019 8:26:16 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	29	9.8		mg/Kg	1	4/22/2019 2:27:39 PM	44400
Motor Oil Range Organics (MRO)	51	49		mg/Kg	1	4/22/2019 2:27:39 PM	44400
Surr: DNOP	79.2	70-130		%Rec	1	4/22/2019 2:27:39 PM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 8:26:16 AM	44384
Toluene	ND	0.049		mg/Kg	1	4/19/2019 8:26:16 AM	44384
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2019 8:26:16 AM	44384
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2019 8:26:16 AM	44384
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%Rec	1	4/19/2019 8:26:16 AM	44384
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	4/19/2019 8:26:16 AM	44384
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/19/2019 8:26:16 AM	44384
Surr: Toluene-d8	96.5	70-130		%Rec	1	4/19/2019 8:26:16 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-7 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 11:45:00 AM

**Lab ID:** 1904831-013

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	110	60		mg/Kg	20	4/20/2019 2:42:23 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2019 8:54:58 AM	44384
Surr: BFB	104	70-130		%Rec	1	4/19/2019 8:54:58 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	160	9.7		mg/Kg	1	4/20/2019 11:38:36 AM	44400
Motor Oil Range Organics (MRO)	230	48		mg/Kg	1	4/20/2019 11:38:36 AM	44400
Surr: DNOP	154	70-130	S	%Rec	1	4/20/2019 11:38:36 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 8:54:58 AM	44384
Toluene	ND	0.049		mg/Kg	1	4/19/2019 8:54:58 AM	44384
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2019 8:54:58 AM	44384
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2019 8:54:58 AM	44384
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	4/19/2019 8:54:58 AM	44384
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	4/19/2019 8:54:58 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 8:54:58 AM	44384
Surr: Toluene-d8	98.3	70-130		%Rec	1	4/19/2019 8:54:58 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-7 1 FT**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 11:55:00 AM**Lab ID:** 1904831-014**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/20/2019 2:54:48 PM	44459
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2019 9:23:35 AM	44384
Surr: BFB	103	70-130		%Rec	1	4/19/2019 9:23:35 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	29	9.8		mg/Kg	1	4/22/2019 12:53:42 PM	44400
Motor Oil Range Organics (MRO)	58	49		mg/Kg	1	4/22/2019 12:53:42 PM	44400
Surr: DNOP	122	70-130		%Rec	1	4/22/2019 12:53:42 PM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	4/19/2019 9:23:35 AM	44384
Toluene	ND	0.049		mg/Kg	1	4/19/2019 9:23:35 AM	44384
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2019 9:23:35 AM	44384
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2019 9:23:35 AM	44384
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	1	4/19/2019 9:23:35 AM	44384
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	4/19/2019 9:23:35 AM	44384
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/19/2019 9:23:35 AM	44384
Surr: Toluene-d8	97.6	70-130		%Rec	1	4/19/2019 9:23:35 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** AH-8 Surface**Project:** Ascent Fed Gas BC**Collection Date:** 4/15/2019 12:05:00 PM**Lab ID:** 1904831-015**Matrix:** SOIL**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/22/2019 12:50:36 PM	44466
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2019 9:52:16 AM	44384
Surr: BFB	105	70-130		%Rec	1	4/19/2019 9:52:16 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	28	9.5		mg/Kg	1	4/23/2019 11:42:40 PM	44400
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/23/2019 11:42:40 PM	44400
Surr: DNOP	89.5	70-130		%Rec	1	4/23/2019 11:42:40 PM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	4/19/2019 9:52:16 AM	44384
Toluene	ND	0.047		mg/Kg	1	4/19/2019 9:52:16 AM	44384
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2019 9:52:16 AM	44384
Xylenes, Total	ND	0.093		mg/Kg	1	4/19/2019 9:52:16 AM	44384
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	4/19/2019 9:52:16 AM	44384
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	4/19/2019 9:52:16 AM	44384
Surr: Dibromofluoromethane	104	70-130		%Rec	1	4/19/2019 9:52:16 AM	44384
Surr: Toluene-d8	96.5	70-130		%Rec	1	4/19/2019 9:52:16 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-8 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 12:10:00 PM

**Lab ID:** 1904831-016

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/22/2019 1:27:50 PM	44466
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 10:20:56 AM	44384
Surr: BFB	107	70-130		%Rec	1	4/19/2019 10:20:56 AM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/24/2019 12:04:39 AM	44400
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2019 12:04:39 AM	44400
Surr: DNOP	77.5	70-130		%Rec	1	4/24/2019 12:04:39 AM	44400
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 10:20:56 AM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 10:20:56 AM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 10:20:56 AM	44384
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2019 10:20:56 AM	44384
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	1	4/19/2019 10:20:56 AM	44384
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	4/19/2019 10:20:56 AM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 10:20:56 AM	44384
Surr: Toluene-d8	98.9	70-130		%Rec	1	4/19/2019 10:20:56 AM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-9 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 12:20:00 PM

**Lab ID:** 1904831-017

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/22/2019 1:40:14 PM	44466
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 2:20:28 PM	44384
Surr: BFB	104	70-130		%Rec	1	4/19/2019 2:20:28 PM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	17	9.4		mg/Kg	1	4/18/2019 11:59:22 AM	44403
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/18/2019 11:59:22 AM	44403
Surr: DNOP	100	70-130		%Rec	1	4/18/2019 11:59:22 AM	44403
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 2:20:28 PM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 2:20:28 PM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 2:20:28 PM	44384
Xylenes, Total	ND	0.096		mg/Kg	1	4/19/2019 2:20:28 PM	44384
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	4/19/2019 2:20:28 PM	44384
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	4/19/2019 2:20:28 PM	44384
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/19/2019 2:20:28 PM	44384
Surr: Toluene-d8	95.9	70-130		%Rec	1	4/19/2019 2:20:28 PM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-9 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 12:25:00 PM

**Lab ID:** 1904831-018

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/22/2019 1:52:38 PM	44466
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 2:49:06 PM	44384
Surr: BFB	105	70-130		%Rec	1	4/19/2019 2:49:06 PM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/18/2019 12:21:24 PM	44403
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/18/2019 12:21:24 PM	44403
Surr: DNOP	101	70-130		%Rec	1	4/18/2019 12:21:24 PM	44403
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 2:49:06 PM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 2:49:06 PM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 2:49:06 PM	44384
Xylenes, Total	ND	0.097		mg/Kg	1	4/19/2019 2:49:06 PM	44384
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	4/19/2019 2:49:06 PM	44384
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	4/19/2019 2:49:06 PM	44384
Surr: Dibromofluoromethane	102	70-130		%Rec	1	4/19/2019 2:49:06 PM	44384
Surr: Toluene-d8	96.4	70-130		%Rec	1	4/19/2019 2:49:06 PM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-10 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 12:30:00 PM

**Lab ID:** 1904831-019

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/22/2019 2:54:41 PM	44466
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 3:17:36 PM	44384
Surr: BFB	102	70-130		%Rec	1	4/19/2019 3:17:36 PM	44384
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	33	10		mg/Kg	1	4/18/2019 12:43:36 PM	44403
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/18/2019 12:43:36 PM	44403
Surr: DNOP	109	70-130		%Rec	1	4/18/2019 12:43:36 PM	44403
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 3:17:36 PM	44384
Toluene	ND	0.048		mg/Kg	1	4/19/2019 3:17:36 PM	44384
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 3:17:36 PM	44384
Xylenes, Total	ND	0.096		mg/Kg	1	4/19/2019 3:17:36 PM	44384
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	4/19/2019 3:17:36 PM	44384
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	4/19/2019 3:17:36 PM	44384
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	4/19/2019 3:17:36 PM	44384
Surr: Toluene-d8	97.9	70-130		%Rec	1	4/19/2019 3:17:36 PM	44384

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-10 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 12:35:00 PM

**Lab ID:** 1904831-020

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/22/2019 3:07:05 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	44	9.9		mg/Kg	1	4/19/2019 10:35:16 AM	44434
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/19/2019 10:35:16 AM	44434
Surr: DNOP	94.7	70-130		%Rec	1	4/19/2019 10:35:16 AM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 8:41:56 AM	44392
Surr: BFB	86.9	73.8-119		%Rec	1	4/19/2019 8:41:56 AM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 8:41:56 AM	44392
Toluene	ND	0.048		mg/Kg	1	4/19/2019 8:41:56 AM	44392
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 8:41:56 AM	44392
Xylenes, Total	ND	0.096		mg/Kg	1	4/19/2019 8:41:56 AM	44392
Surr: 4-Bromofluorobenzene	87.6	80-120		%Rec	1	4/19/2019 8:41:56 AM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-11 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 12:50:00 PM

**Lab ID:** 1904831-021

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	59		mg/Kg	20	4/22/2019 3:19:30 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	43	9.5		mg/Kg	1	4/19/2019 11:47:48 AM	44434
Motor Oil Range Organics (MRO)	48	47		mg/Kg	1	4/19/2019 11:47:48 AM	44434
Surr: DNOP	94.1	70-130		%Rec	1	4/19/2019 11:47:48 AM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2019 9:52:05 AM	44392
Surr: BFB	89.2	73.8-119		%Rec	1	4/19/2019 9:52:05 AM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/19/2019 9:52:05 AM	44392
Toluene	ND	0.046		mg/Kg	1	4/19/2019 9:52:05 AM	44392
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2019 9:52:05 AM	44392
Xylenes, Total	ND	0.093		mg/Kg	1	4/19/2019 9:52:05 AM	44392
Surr: 4-Bromofluorobenzene	89.8	80-120		%Rec	1	4/19/2019 9:52:05 AM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-11 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 1:00:00 PM

**Lab ID:** 1904831-022

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	ND	60		mg/Kg	20	4/22/2019 3:31:55 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	42	9.7		mg/Kg	1	4/19/2019 12:11:58 PM	44434
Motor Oil Range Organics (MRO)	49	49		mg/Kg	1	4/19/2019 12:11:58 PM	44434
Surr: DNOP	96.3	70-130		%Rec	1	4/19/2019 12:11:58 PM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 10:15:29 AM	44392
Surr: BFB	87.6	73.8-119		%Rec	1	4/19/2019 10:15:29 AM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 10:15:29 AM	44392
Toluene	ND	0.048		mg/Kg	1	4/19/2019 10:15:29 AM	44392
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 10:15:29 AM	44392
Xylenes, Total	ND	0.096		mg/Kg	1	4/19/2019 10:15:29 AM	44392
Surr: 4-Bromofluorobenzene	87.3	80-120		%Rec	1	4/19/2019 10:15:29 AM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-12 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 1:10:00 PM

**Lab ID:** 1904831-023

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	1400	60		mg/Kg	20	4/22/2019 3:44:20 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	1200	47		mg/Kg	5	4/22/2019 9:08:31 AM	44434
Motor Oil Range Organics (MRO)	680	240		mg/Kg	5	4/22/2019 9:08:31 AM	44434
Surr: DNOP	130	70-130		%Rec	5	4/22/2019 9:08:31 AM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2019 10:38:55 AM	44392
Surr: BFB	86.5	73.8-119		%Rec	1	4/19/2019 10:38:55 AM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/19/2019 10:38:55 AM	44392
Toluene	ND	0.047		mg/Kg	1	4/19/2019 10:38:55 AM	44392
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2019 10:38:55 AM	44392
Xylenes, Total	ND	0.093		mg/Kg	1	4/19/2019 10:38:55 AM	44392
Surr: 4-Bromofluorobenzene	86.6	80-120		%Rec	1	4/19/2019 10:38:55 AM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-12 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 1:20:00 PM

**Lab ID:** 1904831-024

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	230	60		mg/Kg	20	4/22/2019 3:56:44 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	110	9.5		mg/Kg	1	4/19/2019 1:23:58 PM	44434
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	4/19/2019 1:23:58 PM	44434
Surr: DNOP	100	70-130		%Rec	1	4/19/2019 1:23:58 PM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2019 11:02:19 AM	44392
Surr: BFB	90.7	73.8-119		%Rec	1	4/19/2019 11:02:19 AM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 11:02:19 AM	44392
Toluene	ND	0.049		mg/Kg	1	4/19/2019 11:02:19 AM	44392
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2019 11:02:19 AM	44392
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2019 11:02:19 AM	44392
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	4/19/2019 11:02:19 AM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-13 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 1:35:00 PM

**Lab ID:** 1904831-025

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	1200	60		mg/Kg	20	4/22/2019 4:09:09 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	1300	47		mg/Kg	5	4/22/2019 10:53:20 AM	44434
Motor Oil Range Organics (MRO)	680	240		mg/Kg	5	4/22/2019 10:53:20 AM	44434
Surr: DNOP	123	70-130		%Rec	5	4/22/2019 10:53:20 AM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 11:25:45 AM	44392
Surr: BFB	84.9	73.8-119		%Rec	1	4/19/2019 11:25:45 AM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 11:25:45 AM	44392
Toluene	ND	0.048		mg/Kg	1	4/19/2019 11:25:45 AM	44392
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 11:25:45 AM	44392
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2019 11:25:45 AM	44392
Surr: 4-Bromofluorobenzene	84.5	80-120		%Rec	1	4/19/2019 11:25:45 AM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-13 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 1:50:00 PM

**Lab ID:** 1904831-026

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	200	60		mg/Kg	20	4/22/2019 4:21:33 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	70	10		mg/Kg	1	4/19/2019 2:36:18 PM	44434
Motor Oil Range Organics (MRO)	89	50		mg/Kg	1	4/19/2019 2:36:18 PM	44434
Surr: DNOP	96.4	70-130		%Rec	1	4/19/2019 2:36:18 PM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2019 11:49:12 AM	44392
Surr: BFB	87.4	73.8-119		%Rec	1	4/19/2019 11:49:12 AM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	4/19/2019 11:49:12 AM	44392
Toluene	ND	0.047		mg/Kg	1	4/19/2019 11:49:12 AM	44392
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2019 11:49:12 AM	44392
Xylenes, Total	ND	0.093		mg/Kg	1	4/19/2019 11:49:12 AM	44392
Surr: 4-Bromofluorobenzene	87.6	80-120		%Rec	1	4/19/2019 11:49:12 AM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-14 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 2:05:00 PM

**Lab ID:** 1904831-027

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	1300	60		mg/Kg	20	4/22/2019 4:58:48 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	1300	50		mg/Kg	5	4/22/2019 12:29:58 PM	44434
Motor Oil Range Organics (MRO)	720	250		mg/Kg	5	4/22/2019 12:29:58 PM	44434
Surr: DNOP	124	70-130		%Rec	5	4/22/2019 12:29:58 PM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 12:12:40 PM	44392
Surr: BFB	84.6	73.8-119		%Rec	1	4/19/2019 12:12:40 PM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 12:12:40 PM	44392
Toluene	ND	0.048		mg/Kg	1	4/19/2019 12:12:40 PM	44392
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 12:12:40 PM	44392
Xylenes, Total	ND	0.096		mg/Kg	1	4/19/2019 12:12:40 PM	44392
Surr: 4-Bromofluorobenzene	85.0	80-120		%Rec	1	4/19/2019 12:12:40 PM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-14 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 2:20:00 PM

**Lab ID:** 1904831-028

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	210	60		mg/Kg	20	4/22/2019 5:11:12 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	76	9.4		mg/Kg	1	4/19/2019 4:12:51 PM	44434
Motor Oil Range Organics (MRO)	92	47		mg/Kg	1	4/19/2019 4:12:51 PM	44434
Surr: DNOP	98.2	70-130		%Rec	1	4/19/2019 4:12:51 PM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2019 12:36:20 PM	44392
Surr: BFB	88.1	73.8-119		%Rec	1	4/19/2019 12:36:20 PM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/19/2019 12:36:20 PM	44392
Toluene	ND	0.050		mg/Kg	1	4/19/2019 12:36:20 PM	44392
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2019 12:36:20 PM	44392
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2019 12:36:20 PM	44392
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	4/19/2019 12:36:20 PM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-15 Surface

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 2:35:00 PM

**Lab ID:** 1904831-029

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	1500	60		mg/Kg	20	4/22/2019 5:23:36 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	39	9.8		mg/Kg	1	4/19/2019 4:37:00 PM	44434
Motor Oil Range Organics (MRO)	85	49		mg/Kg	1	4/19/2019 4:37:00 PM	44434
Surr: DNOP	93.7	70-130		%Rec	1	4/19/2019 4:37:00 PM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2019 12:59:39 PM	44392
Surr: BFB	87.4	73.8-119		%Rec	1	4/19/2019 12:59:39 PM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/19/2019 12:59:39 PM	44392
Toluene	ND	0.048		mg/Kg	1	4/19/2019 12:59:39 PM	44392
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2019 12:59:39 PM	44392
Xylenes, Total	ND	0.097		mg/Kg	1	4/19/2019 12:59:39 PM	44392
Surr: 4-Bromofluorobenzene	86.7	80-120		%Rec	1	4/19/2019 12:59:39 PM	44392

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 **1904831**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-15 1FT

**Project:** Ascent Fed Gas BC

**Collection Date:** 4/15/2019 3:00:00 PM

**Lab ID:** 1904831-030

**Matrix:** SOIL

**Received Date:** 4/17/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	1500	60		mg/Kg	20	4/22/2019 5:36:01 PM	44466
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	28000	1000		mg/Kg	100	4/22/2019 3:19:48 PM	44434
Motor Oil Range Organics (MRO)	12000	5000		mg/Kg	100	4/22/2019 3:19:48 PM	44434
Surr: DNOP	0	70-130	S	%Rec	100	4/22/2019 3:19:48 PM	44434
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1900	240		mg/Kg	50	4/19/2019 2:09:50 PM	44392
Surr: BFB	284	73.8-119	S	%Rec	50	4/19/2019 2:09:50 PM	44392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.2		mg/Kg	50	4/19/2019 2:09:50 PM	44392
Toluene	7.4	2.4		mg/Kg	50	4/19/2019 2:09:50 PM	44392
Ethylbenzene	6.3	2.4		mg/Kg	50	4/19/2019 2:09:50 PM	44392
Xylenes, Total	120	4.8		mg/Kg	50	4/19/2019 2:09:50 PM	44392
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	50	4/19/2019 2:09:50 PM	44392

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		



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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August 15, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BC GAS

Enclosed are the results of analyses for samples received by the laboratory on 08/12/19 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/08/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 1 BOTTOM 1' (H902764-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	1.89	94.4	2.00	2.01	
Toluene*	<0.050	0.050	08/13/2019	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.07	103	2.00	1.27	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.33	106	6.00	1.79	
Total BTEX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/08/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 2 BOTTOM 1' (H902764-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	1.89	94.4	2.00	2.01	
Toluene*	<0.050	0.050	08/13/2019	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.07	103	2.00	1.27	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.33	106	6.00	1.79	
Total BTX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
<b>DRO &gt;C10-C28*</b>	<b>18.3</b>	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/08/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 3 BOTTOM 1' (H902764-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	1.89	94.4	2.00	2.01	
Toluene*	<0.050	0.050	08/13/2019	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.07	103	2.00	1.27	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.33	106	6.00	1.79	
Total BTX	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
<b>DRO &gt;C10-C28*</b>	<b>25.2</b>	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/08/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 4 NORTH WALL (H902764-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2019	ND	1.89	94.4	2.00	2.01	
Toluene*	<0.050	0.050	08/13/2019	ND	2.08	104	2.00	1.30	
Ethylbenzene*	<0.050	0.050	08/13/2019	ND	2.07	103	2.00	1.27	
Total Xylenes*	<0.150	0.150	08/13/2019	ND	6.33	106	6.00	1.79	
Total BTEx	<0.300	0.300	08/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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 Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

 Received: 08/12/2019  
 Reported: 08/15/2019  
 Project Name: BC GAS  
 Project Number: ASC-19-001  
 Project Location: NONE GIVEN

 Sampling Date: 08/08/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 5 EAST WALL (H902764-05)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTEX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/08/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 6 WEST WALL (H902764-06)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/14/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2019	ND	198	99.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	08/13/2019	ND	190	94.8	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	08/13/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

 Received: 08/12/2019  
 Reported: 08/15/2019  
 Project Name: BC GAS  
 Project Number: ASC-19-001  
 Project Location: NONE GIVEN

 Sampling Date: 08/08/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 7 SOUTH WALL (H902764-07)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/14/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	201	101	200	3.72	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	195	97.7	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 76.3 % 37.6-147

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Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/09/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 8 BOTTOM 1' (H902764-08)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/14/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	194	97.1	200	7.24	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	180	90.0	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 79.3 % 37.6-147

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**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/09/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 9 BOTTOM 1' (H902764-09)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/14/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	194	97.1	200	7.24	
DRO >C10-C28*	46.9	10.0	08/14/2019	ND	180	90.0	200	9.13	
EXT DRO >C28-C36	13.7	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 76.3 % 41-142

Surrogate: 1-Chlorooctadecane 81.6 % 37.6-147

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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 08/12/2019  
 Reported: 08/15/2019  
 Project Name: BC GAS  
 Project Number: ASC-19-001  
 Project Location: NONE GIVEN

Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 10 BOTTOM 1' (H902764-10)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47		
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55		
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43		
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69		
Total BTEX	<0.300	0.300	08/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/14/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	194	97.1	200	7.24	
DRO >C10-C28*	51.1	10.0	08/14/2019	ND	180	90.0	200	9.13	
EXT DRO >C28-C36	19.6	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 74.8 % 41-142

Surrogate: 1-Chlorooctadecane 80.4 % 37.6-147

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**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/09/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 11 NORTH WALL (H902764-11)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTEX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/14/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	194	97.1	200	7.24	
DRO >C10-C28*	49.1	10.0	08/14/2019	ND	180	90.0	200	9.13	
EXT DRO >C28-C36	18.3	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 71.3 % 41-142

Surrogate: 1-Chlorooctadecane 77.5 % 37.6-147

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 Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

 Received: 08/12/2019  
 Reported: 08/15/2019  
 Project Name: BC GAS  
 Project Number: ASC-19-001  
 Project Location: NONE GIVEN

 Sampling Date: 08/09/2019  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 12 EAST WALL (H902764-12)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	194	97.1	200	7.24	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	180	90.0	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 73.8 % 41-142

Surrogate: 1-Chlorooctadecane 72.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/09/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 13 WEST WALL (H902764-13)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2019	ND	2.07	103	2.00	4.47	
Toluene*	<0.050	0.050	08/14/2019	ND	2.21	110	2.00	3.55	
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	2.15	108	2.00	4.43	
Total Xylenes*	<0.150	0.150	08/14/2019	ND	6.53	109	6.00	4.69	
Total BTEX	<0.300	0.300	08/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/14/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	194	97.1	200	7.24	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	180	90.0	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 74.0 % 41-142

Surrogate: 1-Chlorooctadecane 73.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Safety & Environmental Solutions  
Bob Allen  
703 East Clinton  
Hobbs NM, 88240  
Fax To: (575) 393-4388

Received: 08/12/2019  
Reported: 08/15/2019  
Project Name: BC GAS  
Project Number: ASC-19-001  
Project Location: NONE GIVEN

Sampling Date: 08/09/2019  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SP - 14 SOUTH WALL (H902764-14)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2019	ND	1.85	92.4	2.00	1.69		
Toluene*	<0.050	0.050	08/14/2019	ND	1.97	98.6	2.00	4.30		
Ethylbenzene*	<0.050	0.050	08/14/2019	ND	1.97	98.7	2.00	4.93		
Total Xylenes*	<0.150	0.150	08/14/2019	ND	5.99	99.8	6.00	6.80		
Total BTX	<0.300	0.300	08/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/14/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2019	ND	194	97.1	200	7.24	
DRO >C10-C28*	<10.0	10.0	08/14/2019	ND	180	90.0	200	9.13	
EXT DRO >C28-C36	<10.0	10.0	08/14/2019	ND					

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 73.6 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: 45C-19-001 Project Owner:

Project Name: RC GRS

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H902764

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

Chromat

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

MATRIX

PRESERV.

SAMPLING

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Relinquished By:

Date: 08/12/14 Received By:

Time: 0800

Date: 9/12/14 Received By:

Time: 1657

Relinquished By:

Delivered By: (Circle One)

3.12

#97

Sample Condition  
Cool ☐ Intact ☐  
Eyes ☐ Yes ☐ No ☐

CHECKED BY:  
(Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:  
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Sampler - UPS - Bus - Other:

Collected 3.52

Sample Condition  
Cool ☐ Intact ☐  
Eyes ☐ Yes ☐ No ☐

CHECKED BY:  
(Initials)





# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: 45C-19-001 Project Owner:

Project Name: RC 4.5

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4902-764

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

Chloride

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Phone #:

Fax #:

PRESERV

SAMPLING

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 08/12/19

Received By:

Signature: [Signature]

Relinquished By:

Date: 8/12/19

Received By:

Signature: [Signature]

Relinquished By:

Date: 8/12/19

Received By:

Signature: [Signature]

Delivered By: (Circle One)

3112

#47

Signature: [Signature]

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Corrected 3.5C

Yes ☐ No ☐

Yes ☐ No ☐

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:  
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1909326**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-15 1ft

**Project:** Ascent

**Collection Date:** 9/6/2019 11:00:00 AM

**Lab ID:** 1909326-001

**Matrix:** SOIL

**Received Date:** 9/7/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	320	60		mg/Kg	20	9/15/2019 2:56:37 PM	47490
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	1600	93		mg/Kg	10	9/13/2019 8:57:23 AM	47410
Motor Oil Range Organics (MRO)	950	470		mg/Kg	10	9/13/2019 8:57:23 AM	47410
Surr: DNOP	0	70-130	S	%Rec	10	9/13/2019 8:57:23 AM	47410
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2019 2:51:44 PM	47395
Surr: BFB	85.2	77.4-118		%Rec	1	9/11/2019 2:51:44 PM	47395
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	9/11/2019 2:51:44 PM	47395
Toluene	ND	0.047		mg/Kg	1	9/11/2019 2:51:44 PM	47395
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2019 2:51:44 PM	47395
Xylenes, Total	ND	0.093		mg/Kg	1	9/11/2019 2:51:44 PM	47395
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	9/11/2019 2:51:44 PM	47395

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 **1909326**

Date Reported:

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-15 2ft

**Project:** Ascent

**Collection Date:** 9/6/2019 12:45:00 PM

**Lab ID:** 1909326-002

**Matrix:** SOIL

**Received Date:** 9/7/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	2900	150		mg/Kg	50	9/15/2019 8:44:04 PM	47490
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	200	9.6		mg/Kg	1	9/12/2019 2:31:32 PM	47410
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	9/12/2019 2:31:32 PM	47410
Surr: DNOP	90.9	70-130		%Rec	1	9/12/2019 2:31:32 PM	47410
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2019 4:02:20 PM	47395
Surr: BFB	78.8	77.4-118		%Rec	1	9/11/2019 4:02:20 PM	47395
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/11/2019 4:02:20 PM	47395
Toluene	ND	0.047		mg/Kg	1	9/11/2019 4:02:20 PM	47395
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2019 4:02:20 PM	47395
Xylenes, Total	ND	0.095		mg/Kg	1	9/11/2019 4:02:20 PM	47395
Surr: 4-Bromofluorobenzene	86.6	80-120		%Rec	1	9/11/2019 4:02:20 PM	47395

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		

## **Appendix B**

### **Site Photographs**

**Ascent Energy  
Emperor Oil Co. Federal Gas B C**



Location Marker



Impacted Area

**Ascent Energy  
Emperor Oil Co. Federal Gas B C**



Drone Aerial of Impacted Area



Pature Impact –Micro blazed area

**Ascent Energy**  
**Emperor Oil Co. Federal Gas B C**  
**Completion Photo Documentation**



DCP Marked Line



Where spill left pad (North) Remediated Pasture Area



Reclaimed/reseeded pasture area



Remediation Pad Area



Hydro-vac @ 2ft



Completed Site

## **Appendix C**

### **C-141**



Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- X A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- X Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name Dean Gimbel

Title: Vice President Completion

Signature: 

8/19/19

email: dgimbel@ascentenergy.us

Telephone: 720-710-8995

### **OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

## **Appendix E**

### **Seed Tag**



## Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

**BLM # 2 bagged 25 # bags**

Sales # SO-67999

Description	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass Plains, ( <i>Setaria vulpiseta</i> )	45.53%	8.00%	79.00%	0.00%	TX
Dropseed, Sand ( <i>Sporobolus cryptandrus</i> )	20.63%	3.00%	93.00%	0.00%	TX
Lovegrass Sand, "Bend" ( <i>Eragrostis trichodes</i> )	20.85%	95.00%	0.00%	0.00%	TX
Purity: 87.01%	Inert Matter: 12.34%	Other Crop Seed: 0.60%		Weed Seed: 0.05%	
Noxious Weeds: None	Test Date: 07/2019	b 2		Net Wt: 25 lbs	