

**Ascent Energy**  
Emperor Oil Co Federal Gas B Com #001  
Delineation Report & Work Plan

**Section 28, Township 20S, Range 30E**  
**Eddy County, New Mexico**

2RP-5409

30-015-10465

April 24, 2019



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

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## I. Company Contacts

Representative	Company	Telephone	E-mail
Jody Robbins	Ascent Energy	720-710-8999	<a href="mailto:jrobbins@ascentenergy.us">jrobbins@ascentenergy.us</a>
Bob Allen	SESI	575-397-0510	<a href="mailto:ballen@sesi-nm.com">ballen@sesi-nm.com</a>

## 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. Characterization

The target cleanup levels are determined using the NMAC 19.15.29 revisions dated July 24, 2018. The soil screening criteria presented below, and the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX), and 2,500 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 600 mg/kg (PPM) is also required for pasture impact. The soil in this area is characterized as part of the Reagan-Upton Association: Loamy, deep soils and soils that are shallow to caliche, from old alluvium.

Table 1  
Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l	Constituent	Method*	Limit**
TDS  <50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg

**V. 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, and 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 (Cl 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

## VI. Action Plan

Based on the NMOCD soil screening levels and depth to groundwater for this area: Petroleum Hydrocarbons are the constituency of concern in this spill. Therefore, and based upon remaining Petroleum Hydrocarbon levels, SESI is proposing to excavate and remove soil to depths, whereby DRO+GRO are <1,000 mg/kg on the pad area, where AH-12 thru AH-15 indicate Hydrocarbon impact, and < 100 mg/kg for the impacted pasture area. All impacted soils will be transported to an NMOCD approved facility, and documented via manifests. The pad area will be restored to grade, excavated pasture area will be backfilled with fresh topsoil and terraced to surrounding area in order to facilitate vegetation, and prevent erosion. Sidewall and Bottom Samples will be retrieved as confirmation, and included in all Closure Documentation.

Upon completion of remediation activities: all surface areas off of the location area will be re-seeded according New Mexico State Land Office Guidelines. All closure documentation will be drafted and submitted to the proper parties of concern.

**VII. Figures & Appendices**

Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A – C-141

Appendix B – Groundwater

Appendix C – Analytical Results

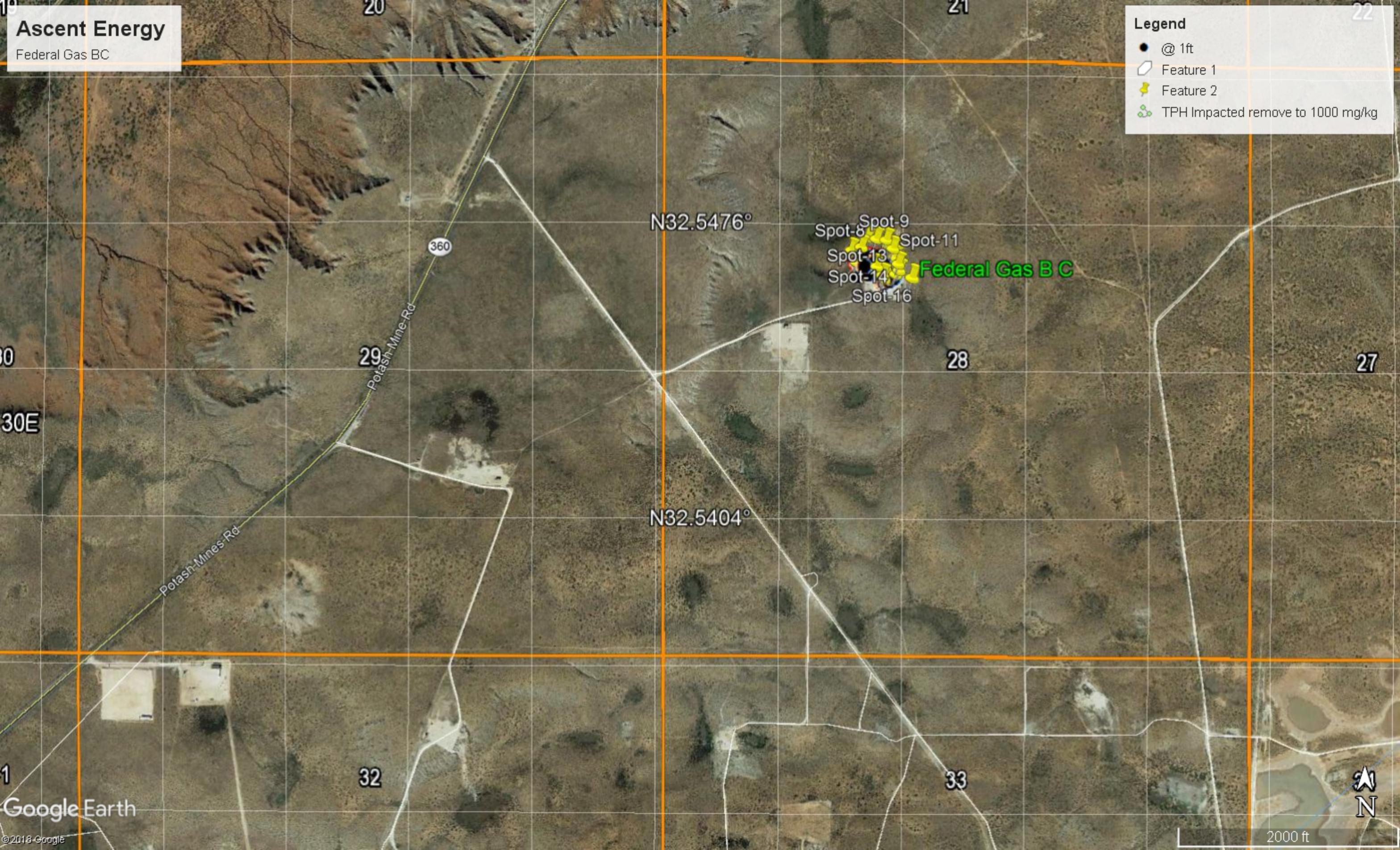
Appendix D – Photo Documentation

# **Figure 1**

## **Vicinity Map**

**Legend**

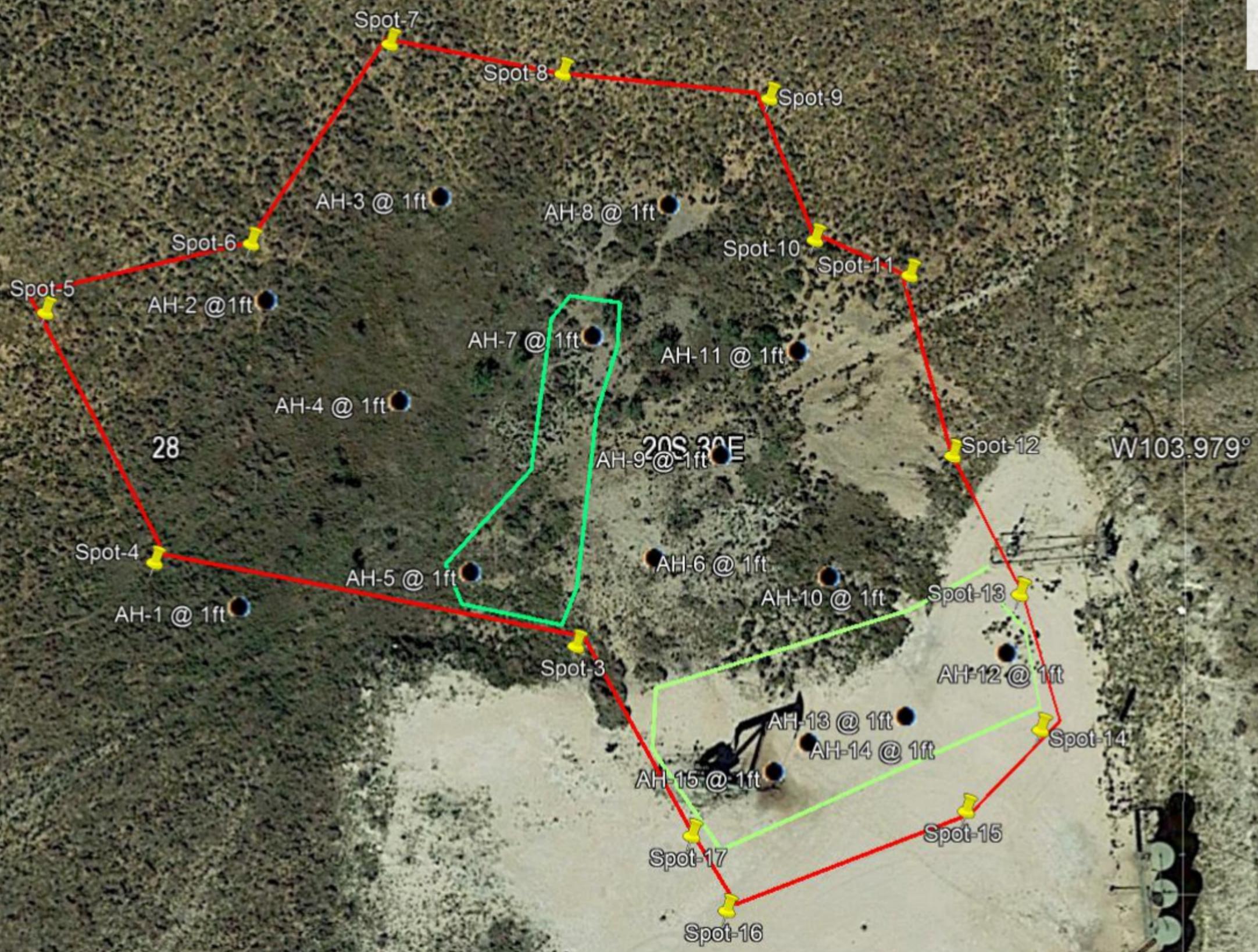
- @ 1ft
- ▭ Feature 1
- 📍 Feature 2
- 🌿 TPH Impacted remove to 1000 mg/kg



**Figure 2  
Site Plan**

**Legend**

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



# **Appendix A**

## **C-141**

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Ascent Energy	OGRID
Contact Name Jody Robins	Contact Telephone
Contact email: jrobins@ascentenergy.us	Incident # (assigned by OCD)
Contact mailing address: 1125 17th Street Denver, CO 80202	

### Location of Release Source

Latitude 32.5461655 Longitude -103.9793625  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Emperor Oil Co Federal Gas B Com #001	Site Type: Gas
Date Release Discovered:	API# (if applicable) 30-015-10465

Unit Letter	Section	Township	Range	County
F	28	20S	30E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe) Water from P&A Wellbore	Volume/Weight Released (provide units) unknown Was advised as of 2 pm 11/9/2018 leak has stopped flowing	Volume/Weight Recovered (provide units) 100 bbl water trucked from emergency containment to disposal

Cause of Release: A shallow hole in the tubing caused a leak in the packing on the stuffing box.



Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	132 (ft bgs) Yes
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: Jody C Robins Title: Vice President, Drilling

Signature:  Date: 3/25/19

email: jrobins@ascentenergy.us Telephone: 720-710-8999

**OCD Only**

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Jody C Robins Title: Vice President, Drilling

Signature:  Date: 3/25/19

email: jrobins@ascentenergy.us Telephone: 720-710-8999

**OCD Only**

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

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

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

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.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- 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)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- 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: Jody C Robins Title: Vice President, Drilling

Signature:  Date: 3/25/19

email: jrobins@ascentenergy.us Telephone: 720-710-8999

**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 B**

## **Groundwater**



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	WaterColumn
<a href="#">CP 00419</a>		CP	ED	4	3	32	20S	30E		594250	3599003*	262	170	92
<a href="#">CP 00431</a>		CP	ED	2	3	33	20S	30E		595857	3599419*	235	195	40
<a href="#">CP 00532</a>		CP	ED	4	3	4	21	20S	30E	596328	3602138*	335	150	185
<a href="#">CP 00537 POD1</a>		CP	LE	3	1	1	36	20S	30E	600176	3600161*	3500		
<a href="#">CP 00551</a>		CP	ED	1	1	1	33	20S	30E	595343	3600320*	286	187	99
<a href="#">CP 00644 POD2</a>		CP	LE	1	4	3	04	20S	30E	595689	3607164*	285	60	225
<a href="#">CP 00645 POD2</a>		CP	LE	3	4	3	04	20S	30E	595689	3606964*	296	62	234
<a href="#">CP 00648 POD1</a>	R	CP	LE	4	3	3	04	20S	30E	595488	3606960*	337	82	255
<a href="#">CP 00648 POD2</a>		CP	ED	4	3	3	04	20S	30E	595488	3606960*	330	75	255
<a href="#">CP 00775</a>		CP	ED	2	1	4	11	20S	30E	599515	3605981*	350	40	310
<a href="#">CP 00781 POD1</a>		CP	ED	2	3	1	36	20S	30E	600381	3599959*	700	332	368
<a href="#">CP 00834 POD1</a>		CP	LE		2	3	06	20S	30E	592566	3607436*	120		
<a href="#">CP 01629 POD1</a>		CP	ED	4	3	2	19	20S	30E	593060	3602968	141	102	39

Average Depth to Water: **132 feet**  
 Minimum Depth: **40 feet**  
 Maximum Depth: **332 feet**

**Record Count:** 13

**PLSS Search:**

**Township:** 20S **Range:** 30E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/14/19 12:21 PM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# **Appendix C**

## **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		

# **Appendix D**

## **Site Photos**

**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 Impacte –Micro blazed area



