

# **Breitburn Management**

**State 647-711**

**Work Plan**

**Section 27, Township 18S, Range 28E  
Eddy County, New Mexico**

**Revised**

**April 4, 2019**



**Prepared for:**

**Breitburn Management  
P.O. BOX 678  
Andrews, TX 79714**

**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
Thomas Haigood	Breitburn	(432) 701-7802	<a href="mailto:Thomas.haigood@breitburn.com">Thomas.haigood@breitburn.com</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 Breitburn to assess a spill on the State 647-711 concerning a seventy (70) bbls. of oil and produced water release. This site is situated in Eddy County, Section 27, Township 18S, and Range 28E.

According to the C-141: approximately seventy (70) barrels of oil and produced water was released when a three (3) inch check valve flow on the flow line failed due to inner corrosion, which caused a small pinhole on the bottom of the valve. The line was isolated and a vacuum truck was dispatched to recover all of the freestanding fluid. A backhoe removed all saturated soil and replaced it with fresh dirt. A remediation contractor was contacted.

**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 300' bgs.

**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.

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**
<50 feet	TDS		
	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 September 10, 2018, SESI personnel was onsite at the Breitbart State 647-711 with Breitbart personnel and JS Services Backhoe personnel to begin delineation of the release installing test trenches to determine vertical extent of contamination. The JS Services personnel hand excavated to the depth of one foot in the release area where several pipelines were located. Test trench one was installed to the max depth of thirteen feet with the backhoe. Soil samples were obtained and field tested for TPH and Chlorides. Test trench one was then backfilled, and test trench two was installed to the depth of thirteen feet, while soil samples were obtained and field tested. The location was pin flagged using white flags for the one call. The excavation was mapped using the Juno 3B and site photos were taken. Aerial photos of the location, release area, and excavation were also taken using the drone. All soil samples were properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for TPH (total petroleum hydrocarbons) (Method 8015M), BTEX, and Chlorides (Method SM4500CI-B). The lab results are recapped in the following table:

Breitbart State 647-711 Soil Sample Results: Cardinal Laboratories 9-13-2018									
SAMPLE ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO	EXT DRO
TT-1 2ft	<0.050	<0.050	<0.050	<0.150	<0.300	272	<10.0	175	15.7
TT-1 5ft	<0.050	<0.050	<0.050	<0.150	<0.300	672	<10.0	<10.0	<10.0
TT-1 7ft	<0.050	<0.050	<0.050	<0.150	<0.300	736	<10.0	14.4	<10.0
TT-1 13ft	<0.050	<0.050	<0.050	<0.150	<0.300	576	<10.0	10.2	<10.0
TT-2 3ft	<0.050	<0.050	<0.050	<0.150	<0.300	240	<10.0	<10.0	<10.0
TT-2 4ft	<0.050	<0.050	<0.050	<0.150	<0.300	224	<10.0	<10.0	<10.0
TT-2 13ft	<0.050	<0.050	<0.050	<0.150	<0.300	112	<10.0	<10.0	<10.0

On March 12, 2019, pursuant to an email request from Robert Hamlet of the NMOCD; SESI personnel, together with personnel and equipment from Custom Welding of Hobbs, NM., returned to the Breitbart 711 site in order to conduct further soil delineation. Five (5) test trenches (TT) were advanced to depths whereby soil screening levels were at or under the recommended limits for Chlorides, and Petroleum Hydrocarbons based on depth to water for the area. At the request of NMOCD representative; Soil samples were grabbed at surface and one foot increments. All soil samples were properly packaged, preserved and transported to Hall Laboratories by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), BTEX, and Chlorides (Method 300.0 ANIONS). The lab results are recapped in the following table:

Breitbart State 647-711 Soil Sample Results: Hall Laboratories 03-28-19								
SAMPLE ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO
TT 1 @ Surface	ND	ND	ND	ND	ND	3000	ND	150
TT 1 @ 2 ft.	ND	ND	ND	ND	ND	560	ND	ND
TT 1 @ 3 ft.	ND	ND	ND	ND	ND	390	ND	ND
TT 2 @ Surface	ND	ND	ND	ND	ND	170	ND	570
TT 2 @ 1 ft.	ND	ND	ND	ND	ND	400	ND	ND
TT 2 @ 2 ft.	ND	ND	ND	ND	ND	380	ND	ND
TT 3 @ Surface	ND	ND	ND	.14	ND	9800	ND	8100
TT 3 @ 1 ft.	ND	ND	ND	ND	ND	2600	ND	660
TT 3 @ 2 ft.	ND	ND	ND	ND	ND	2900	ND	ND
TT 3 @ 3 ft.	ND	ND	ND	ND	ND	210	ND	ND
TT 3 @ 4 ft.	ND	ND	ND	ND	ND	88	ND	ND
TT 4 @ Surface	ND	ND	ND	ND	ND	1900	ND	240
TT 4 @ 1 ft.	ND	ND	ND	ND	ND	440	ND	ND
TT 5 @ Surface	ND	ND	ND	ND	ND	13000	ND	970
TT 5 @ 1 ft.	ND	ND	ND	ND	ND	420	ND	11

## VI. Action Plan

The results of the samples listed above indicate no BTEX present in any of the samples. Therefore, it is proposed to excavate the impacted area off the lease road and pad to a depth where all bottom samples are at or below 600 ppm chlorides, and Diesel organics are below 100 mg/kg. Based on the latest analytical results, it is estimated that a 1' bgs. excavation will be necessary to remediate the spill area. The lease roads are constructed of hard packed caliche from years of transport, heavily traveled, and could not be trenched for testing. All caliche with staining will be removed and replaced, restoring the road to grade.

The horizontal extent of contamination will be determined by side wall samples to be taken at the time of excavation. The excavation will be backfilled with uncontaminated soil and all contaminated soil will be transported to an NMOCD approved facility. Pad and lease road will be returned to grade. Upon completion of all approved remediation activity, all necessary closure documentation will be submitted to the appropriate regulatory agencies.

## **VII. Figures & Appendices**

Figure 1 - Site Map  
Appendix A – C-141  
Appendix B – Groundwater  
Appendix C – Analytical Results  
Appendix D – Photo Documentation

# **Figure 1**

## **Site Map**

# Breitburn 711 Battery

Test Trench Map 9-10-18





## Legend

- 13ft
- ▲ Feature 1
- Spill Area 1



Breitburn 711 Battery

**Legend**

-  Breitburn 711 Battery
-  Sample Point
-  Sample Point
-  Spill Area 1

Breitburn 711 Battery

27

186 28E  
Sample Point 4

Sample Point 3

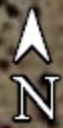
Sample Point 2  
TT 2 13ft

Sample Point 1

Sample Point 5

Sample Point 2

TT 1 13ft Sample Point 3



# **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

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : Breitburn Operating	Contact Thomas Haigood	
Address PO Box 678 Andrews, TX	Telephone No. (432) 701-7802	
Facility Name: State 647-711, Lease ID 309083	Facility Type: Battery	
Surface Owner: Unknown	Mineral Owner : Unknown	API No: N/A

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Eddy
	27	18 S	28 E					

Latitude: 32°43'15" N Longitude: 104°09'54"W

### NATURE OF RELEASE

Type of Release: Production Fluid (Oil & Produced Water)	Volume of Release: 70 bbl.	Volume Recovered: 45 Pro. Water, 5 bbl. oil	
Source of Release: 3 inch check valve failed	Date and Hour of Occurrence 9/8/2018	Date and Hour of Discovery: 9/8/2018, 11:00am	
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? 1 <sup>st</sup> attempt made to NMOCD on 9/8/2018 at 4:30 pm 2 <sup>nd</sup> attempt made to NMOCD on 9/10/2018 at 12:15pm 3 <sup>rd</sup> call made to Mike Bratcher on 9/11/2018 at 9:30am		
By Whom? Thomas Haigood, EHS Coordinator	Date and Hour: 9/11/2018, 9:30am		
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A		
If a Watercourse was Impacted, Describe Fully.* N/A			
Describe Cause of Problem and Remedial Action Taken.* 3-inch check valve on flow line failed due to inner corrosion, which caused a small pinhole on the bottom of the valve. The spill occurred early morning on 9/8/2018, and found when the lease operator made his site visit at 11:00am. The line was isolated and a vacuum truck was dispatched to recover all freestanding fluid. Delineation as conducted and submitted for analytical. A backhoe removed all saturated soil and replaced with fresh dirt.			
Describe Area Affected and Cleanup Action Taken.* An area estimated 200ft. long by 2-6 ft. wide was impacted by runoff. The area was sampled and a work plan for remediation will be submitted for clean approval.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.			
Signature: <i>Thomas Haigood</i>		OIL CONSERVATION DIVISION	
Printed Name: Thomas Haigood			
Title: EHS Coordinator, West TX/East NM Operations		Approved by Environmental Specialist:	
E-mail Address: Thomas.haigood@breitburn.com		Approval Date:	Expiration Date:
Date: 9/11/18 Phone: (432) 701-7802		Conditions of Approval:	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

# **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	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">RA 09588</a>	RA	ED		1	2	33		18S	28E	576976	3619384*	300		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Township: 18S

Range: 28E

\*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.

# **Appendix C**

## **Analytical Results**

September 13, 2018

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRE-18-007

Enclosed are the results of analyses for samples received by the laboratory on 09/11/18 8:00.

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,



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: 09/11/2018  
Reported: 09/13/2018  
Project Name: BRE-18-007  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/10/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: TT - 1 2' (H802557-01)**

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	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTX	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/12/2018	ND	400	100	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	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	175	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	15.7	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 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: 09/11/2018  
Reported: 09/13/2018  
Project Name: BRE-18-007  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/10/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: TT - 1 5' (H802557-02)**

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	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEX	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/12/2018	ND	400	100	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	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 09/11/2018  
Reported: 09/13/2018  
Project Name: BRE-18-007  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/10/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: TT - 1 7' (H802557-03)**

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	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEx	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	09/12/2018	ND	400	100	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	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	14.4	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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Received: 09/11/2018  
Reported: 09/13/2018  
Project Name: BRE-18-007  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/10/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: TT - 1 13' (H802557-04)**

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	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEX	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/12/2018	ND	432	108	400	0.00	QM-07	

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	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	10.2	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 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: 09/11/2018  
Reported: 09/13/2018  
Project Name: BRE-18-007  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/10/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: TT - 2 3' (H802557-05)**

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	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEX	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/12/2018	ND	432	108	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	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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\*=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: 09/11/2018  
Reported: 09/13/2018  
Project Name: BRE-18-007  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/10/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: TT - 2 4' (H802557-06)**

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	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTEx	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/12/2018	ND	432	108	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	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 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: 09/11/2018  
Reported: 09/13/2018  
Project Name: BRE-18-007  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/10/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: TT - 2 13' (H802557-07)**

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	09/12/2018	ND	2.39	119	2.00	1.92	
Toluene*	<0.050	0.050	09/12/2018	ND	2.26	113	2.00	2.40	
Ethylbenzene*	<0.050	0.050	09/12/2018	ND	2.25	113	2.00	1.69	
Total Xylenes*	<0.150	0.150	09/12/2018	ND	6.82	114	6.00	1.37	
Total BTX	<0.300	0.300	09/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/12/2018	ND	432	108	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	09/11/2018	ND	200	99.8	200	2.23	
DRO >C10-C28*	<10.0	10.0	09/11/2018	ND	193	96.6	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	09/11/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 97.8 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene, Lab Director/Quality Manager

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

<b>Company Name:</b> Safety and Environmental Solutions			<b>P.O. #:</b>		
<b>Project Manager:</b> Bob Allen			<b>Company:</b> Same		
<b>Address:</b> 703 East Clinton, PO Box 1613			<b>Attn:</b>		
<b>City:</b> Hobbs	<b>State:</b> NM		<b>Zip:</b> 88240		
<b>Phone #:</b> 575 397-0510	<b>Fax #:</b> 575 393-4388		<b>Address:</b>		
<b>Project #:</b> BRE-18-007			<b>City:</b>		
<b>Project Owner:</b>			<b>State:</b>		
<b>Project Location:</b>			<b>Zip:</b>		
<b>Sample Name:</b>			<b>Phone #:</b>		
<b>FOR LAB USE ONLY</b>			<b>Fax #:</b>		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :													
4802557			1		X							09/10	11:15	X	X	X	X	X	X	X	X	X
	T-1		1		X							09/10	11:30	X	X	X	X	X	X	X	X	
	T-1		1		X							09/10	11:50	X	X	X	X	X	X	X	X	
	T-1		1		X							09/10	12:15	X	X	X	X	X	X	X	X	
	T-2		1		X							09/10	D15 Am	X	X	X	X	X	X	X	X	
	T-2		1		X							09/10	D130 Am	X	X	X	X	X	X	X	X	
	T-2		1		X							09/10	D200 Am	X	X	X	X	X	X	X	X	

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**Relinquished By:** [Signature] **Received By:** [Signature]

**Date:** 08/20 **Time:**

**Relinquished By:** [Signature] **Received By:** [Signature]

**REMARKS:**

TPH (80056X)  
BTEX  
Chlorides (4500)



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

April 05, 2019

Bob Allen  
Safety & Environmental Solutions  
PO Box 1613  
Hobbs, NM 88241  
TEL: (575) 397-0510  
FAX: (575) 393-4388

RE: Breitburn Maverick 711 Battery

OrderNo.: 1903D60

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/28/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 9:00:00 AM**Lab ID:** 1903D60-001**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	9800	600		mg/Kg	200	4/2/2019 4:25:06 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	8100	93		mg/Kg	10	4/1/2019 1:17:16 PM	43967
Motor Oil Range Organics (MRO)	5200	470		mg/Kg	10	4/1/2019 1:17:16 PM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/1/2019 1:17:16 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Surr: BFB	120	73.8-119	S	%Rec	1	3/30/2019 11:42:47 AM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Toluene	ND	0.049		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Xylenes, Total	0.14	0.098		mg/Kg	1	3/30/2019 11:42:47 AM	43937
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	3/30/2019 11:42:47 AM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 9:15:00 AM**Lab ID:** 1903D60-002**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	2600	150		mg/Kg	50	4/2/2019 4:37:30 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	660	9.6		mg/Kg	1	4/1/2019 2:53:13 PM	43967
Motor Oil Range Organics (MRO)	350	48		mg/Kg	1	4/1/2019 2:53:13 PM	43967
Surr: DNOP	112	70-130		%Rec	1	4/1/2019 2:53:13 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Surr: BFB	101	73.8-119		%Rec	1	3/30/2019 12:53:24 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 12:53:24 PM	43937
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	3/30/2019 12:53:24 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 2Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 9:30:00 AM**Lab ID:** 1903D60-003**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	2900	150		mg/Kg	50	4/2/2019 4:49:55 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/1/2019 4:21:33 PM	43967
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2019 4:21:33 PM	43967
Surr: DNOP	99.7	70-130		%Rec	1	4/1/2019 4:21:33 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Surr: BFB	91.0	73.8-119		%Rec	1	3/30/2019 1:17:01 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Toluene	ND	0.049		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Xylenes, Total	ND	0.098		mg/Kg	1	3/30/2019 1:17:01 PM	43937
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	3/30/2019 1:17:01 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 3Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 9:45:00 AM**Lab ID:** 1903D60-004**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	210	60		mg/Kg	20	3/30/2019 2:24:04 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/1/2019 5:50:08 PM	43967
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2019 5:50:08 PM	43967
Surr: DNOP	91.3	70-130		%Rec	1	4/1/2019 5:50:08 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Surr: BFB	89.1	73.8-119		%Rec	1	3/30/2019 1:40:32 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Xylenes, Total	ND	0.094		mg/Kg	1	3/30/2019 1:40:32 PM	43937
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	3/30/2019 1:40:32 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-3 4Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 10:00:00 AM**Lab ID:** 1903D60-005**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	88	60		mg/Kg	20	3/30/2019 2:36:29 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/1/2019 6:12:13 PM	43967
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/1/2019 6:12:13 PM	43967
Surr: DNOP	78.5	70-130		%Rec	1	4/1/2019 6:12:13 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Surr: BFB	89.0	73.8-119		%Rec	1	3/30/2019 2:04:12 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Toluene	ND	0.048		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2019 2:04:12 PM	43937
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	3/30/2019 2:04:12 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-1 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 10:10:00 AM**Lab ID:** 1903D60-006**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	3000	150		mg/Kg	50	4/2/2019 5:02:20 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	150	9.9		mg/Kg	1	4/1/2019 7:18:41 PM	43967
Motor Oil Range Organics (MRO)	310	49		mg/Kg	1	4/1/2019 7:18:41 PM	43967
Surr: DNOP	105	70-130		%Rec	1	4/1/2019 7:18:41 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Surr: BFB	87.2	73.8-119		%Rec	1	3/30/2019 2:27:50 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2019 2:27:50 PM	43937
Surr: 4-Bromofluorobenzene	88.5	80-120		%Rec	1	3/30/2019 2:27:50 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-1 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 10:20:00 AM**Lab ID:** 1903D60-007**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	590	60		mg/Kg	20	3/30/2019 3:01:18 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	36	9.5		mg/Kg	1	4/2/2019 7:12:53 PM	43967
Motor Oil Range Organics (MRO)	88	47		mg/Kg	1	4/2/2019 7:12:53 PM	43967
Surr: DNOP	101	70-130		%Rec	1	4/2/2019 7:12:53 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Surr: BFB	89.3	73.8-119		%Rec	1	3/30/2019 2:51:23 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Toluene	ND	0.050		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2019 2:51:23 PM	43937
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	3/30/2019 2:51:23 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**

Date Reported: **4/5/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-1 2Ft

**Project:** Breitburn Maverick 711 Battery

**Collection Date:** 3/26/2019 10:45:00 AM

**Lab ID:** 1903D60-008

**Matrix:** SOIL

**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	560	60		mg/Kg	20	3/30/2019 3:13:43 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/1/2019 9:30:55 PM	43967
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/1/2019 9:30:55 PM	43967
Surr: DNOP	70.2	70-130		%Rec	1	4/1/2019 9:30:55 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Surr: BFB	89.2	73.8-119		%Rec	1	3/30/2019 3:14:52 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Toluene	ND	0.049		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2019 3:14:52 PM	43937
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	3/30/2019 3:14:52 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**

Date Reported: **4/5/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-1 3Ft

**Project:** Breitburn Maverick 711 Battery

**Collection Date:** 3/26/2019 10:55:00 AM

**Lab ID:** 1903D60-009

**Matrix:** SOIL

**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	390	60		mg/Kg	20	3/30/2019 3:26:07 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/1/2019 9:52:43 PM	43967
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/1/2019 9:52:43 PM	43967
Surr: DNOP	46.5	70-130	S	%Rec	1	4/1/2019 9:52:43 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Surr: BFB	88.7	73.8-119		%Rec	1	3/30/2019 5:12:21 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 5:12:21 PM	43937
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	3/30/2019 5:12:21 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-4 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:05:00 AM**Lab ID:** 1903D60-010**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	1900	60		mg/Kg	20	3/30/2019 3:38:31 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	240	97		mg/Kg	10	4/1/2019 10:14:40 PM	43967
Motor Oil Range Organics (MRO)	730	480		mg/Kg	10	4/1/2019 10:14:40 PM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/1/2019 10:14:40 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Surr: BFB	86.4	73.8-119		%Rec	1	3/30/2019 5:35:39 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Toluene	ND	0.048		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Xylenes, Total	ND	0.095		mg/Kg	1	3/30/2019 5:35:39 PM	43937
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	3/30/2019 5:35:39 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-4 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:10:00 AM**Lab ID:** 1903D60-011**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	440	59		mg/Kg	20	3/30/2019 3:50:56 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/2/2019 8:41:39 PM	43967
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/2/2019 8:41:39 PM	43967
Surr: DNOP	86.3	70-130		%Rec	1	4/2/2019 8:41:39 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Surr: BFB	90.2	73.8-119		%Rec	1	3/30/2019 5:58:51 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 5:58:51 PM	43937
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	3/30/2019 5:58:51 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-5 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:20:00 AM**Lab ID:** 1903D60-012**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>smb</b>
Chloride	13000	600		mg/Kg	200	4/2/2019 5:39:34 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	970	99		mg/Kg	10	4/1/2019 11:42:23 PM	43967
Motor Oil Range Organics (MRO)	940	490		mg/Kg	10	4/1/2019 11:42:23 PM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/1/2019 11:42:23 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Surr: BFB	85.3	73.8-119		%Rec	1	3/30/2019 6:22:08 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2019 6:22:08 PM	43937
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	3/30/2019 6:22:08 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-5 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:25:00 AM**Lab ID:** 1903D60-013**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	420	60		mg/Kg	20	3/30/2019 4:40:35 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	4/2/2019 12:47:58 AM	43967
Motor Oil Range Organics (MRO)	50	50		mg/Kg	1	4/2/2019 12:47:58 AM	43967
Surr: DNOP	90.3	70-130		%Rec	1	4/2/2019 12:47:58 AM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Surr: BFB	89.4	73.8-119		%Rec	1	3/30/2019 6:45:37 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Toluene	ND	0.050		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2019 6:45:37 PM	43937
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	3/30/2019 6:45:37 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-2 Surface**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 11:55:00 AM**Lab ID:** 1903D60-014**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	170	60		mg/Kg	20	3/30/2019 4:52:59 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	570	100		mg/Kg	10	4/2/2019 1:53:44 AM	43967
Motor Oil Range Organics (MRO)	950	500		mg/Kg	10	4/2/2019 1:53:44 AM	43967
Surr: DNOP	0	70-130	S	%Rec	10	4/2/2019 1:53:44 AM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Surr: BFB	86.1	73.8-119		%Rec	1	3/30/2019 7:09:04 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Toluene	ND	0.048		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2019 7:09:04 PM	43937
Surr: 4-Bromofluorobenzene	89.2	80-120		%Rec	1	3/30/2019 7:09:04 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**Date Reported: **4/5/2019****CLIENT:** Safety & Environmental Solutions**Client Sample ID:** TT-2 1Ft**Project:** Breitburn Maverick 711 Battery**Collection Date:** 3/26/2019 12:00:00 PM**Lab ID:** 1903D60-015**Matrix:** SOIL**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	400	59		mg/Kg	20	3/30/2019 5:05:24 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/4/2019 9:08:05 AM	43967
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/4/2019 9:08:05 AM	43967
Surr: DNOP	88.0	70-130		%Rec	1	4/4/2019 9:08:05 AM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Surr: BFB	88.0	73.8-119		%Rec	1	3/30/2019 7:32:36 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Toluene	ND	0.047		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2019 7:32:36 PM	43937
Surr: 4-Bromofluorobenzene	91.1	80-120		%Rec	1	3/30/2019 7:32:36 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1903D60**

Date Reported: **4/5/2019**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** TT-2 2Ft

**Project:** Breitburn Maverick 711 Battery

**Collection Date:** 3/26/2019 12:15:00 PM

**Lab ID:** 1903D60-016

**Matrix:** SOIL

**Received Date:** 3/28/2019 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>SRM</b>
Chloride	380	60		mg/Kg	20	3/30/2019 5:17:48 PM	43982
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/2/2019 10:10:06 PM	43967
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/2/2019 10:10:06 PM	43967
Surr: DNOP	90.5	70-130		%Rec	1	4/2/2019 10:10:06 PM	43967
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Surr: BFB	86.6	73.8-119		%Rec	1	3/30/2019 7:56:00 PM	43937
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Toluene	ND	0.046		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2019 7:56:00 PM	43937
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	3/30/2019 7:56:00 PM	43937

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

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety &amp; Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: <b>MB-43982</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>43982</b>	RunNo: <b>58778</b>
Prep Date: <b>3/29/2019</b>	Analysis Date: <b>3/30/2019</b>	SeqNo: <b>1975291</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-43982</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>43982</b>	RunNo: <b>58778</b>
Prep Date: <b>3/29/2019</b>	Analysis Date: <b>3/30/2019</b>	SeqNo: <b>1975292</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.0 90 110

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety &amp; Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: <b>LCS-43967</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>43967</b>		RunNo: <b>58785</b>							
Prep Date: <b>3/29/2019</b>	Analysis Date: <b>4/1/2019</b>		SeqNo: <b>1976451</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	69.6	63.9	124			
Surr: DNOP	3.9		5.000		77.2	70	130			

Sample ID: <b>MB-43967</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>43967</b>		RunNo: <b>58785</b>							
Prep Date: <b>3/29/2019</b>	Analysis Date: <b>4/1/2019</b>		SeqNo: <b>1976452</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

Sample ID: <b>LCS-44126</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>44126</b>		RunNo: <b>58882</b>							
Prep Date: <b>4/4/2019</b>	Analysis Date: <b>4/4/2019</b>		SeqNo: <b>1980513</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.3	70	130			

Sample ID: <b>MB-44126</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>44126</b>		RunNo: <b>58882</b>							
Prep Date: <b>4/4/2019</b>	Analysis Date: <b>4/4/2019</b>		SeqNo: <b>1980514</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.4	70	130			

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety &amp; Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: <b>LCS-43937</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>43937</b>		RunNo: <b>58766</b>							
Prep Date: <b>3/28/2019</b>	Analysis Date: <b>3/30/2019</b>		SeqNo: <b>1974438</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	80.1	123			
Surr: BFB	1000		1000		105	73.8	119			

Sample ID: <b>MB-43937</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>43937</b>		RunNo: <b>58766</b>							
Prep Date: <b>3/28/2019</b>	Analysis Date: <b>3/30/2019</b>		SeqNo: <b>1974439</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.9	73.8	119			

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D60

05-Apr-19

Client: Safety &amp; Environmental Solutions

Project: Breitburn Maverick 711 Battery

Sample ID: <b>LCS-43937</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>43937</b>	RunNo: <b>58766</b>								
Prep Date: <b>3/28/2019</b>	Analysis Date: <b>3/30/2019</b>	SeqNo: <b>1974464</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	1.0	0.050	1.000	0	99.9	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			

Sample ID: <b>MB-43937</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>43937</b>	RunNo: <b>58766</b>								
Prep Date: <b>3/28/2019</b>	Analysis Date: <b>3/30/2019</b>	SeqNo: <b>1974465</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

### Qualifiers:

H Holding times for preparation or analysis exceeded  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified at testcode

# Sample Log-In Check List

Client Name: **Safety Env Solutions**

Work Order Number: **1903D60**

RcptNo: 1

Received By: **Yazmine Garduno** 3/28/2019 8:50:00 AM

Completed By: **Erin Melendrez** 3/28/2019 9:55:03 AM

Reviewed By: **ENM** 3/28/19

LB: **YG 3/28/19**

## Chain of Custody

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

## Log In

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

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **YG 3/28/19**

## Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

## 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

<b>Chain-of-Custody Record</b>		Turn-Around Time:
Client: Safety & Environmental Solutions		5 Day Rush <input type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address: 1703 E. Clinton		Project Name: Brewster
Address: 88240		Project #: BRE-18-007
Phone #: 575-3970510		Project Manager: Alfred Bob
email or Fax#:		
QA/QC Package:		
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation		
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____	Sampler: Sengul
<input type="checkbox"/> EDD (Type) _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Sample Temperature: 2.4°C

Turn-Around Time:	5 Day Rush <input type="checkbox"/> Standard <input type="checkbox"/> Rush
Project Name:	Brest band
Project #:	Week 1711 Bithy
Project Manager:	Alfred Bob
Sampler:	Sam Jones
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Temperature:	2.4°C

email or Fax#:	
QA/QC Package:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
Accreditation	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____
<input type="checkbox"/> EDD (Type) _____	

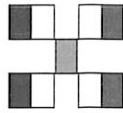
Project Manager:	Alfred Bob
Sampler:	Senjung
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Temperature:	2.4°C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
3/26	0900	S	TI-3 Surface	1	pest	1903D60
}	0915	S	TI-3 1 ft	1	}	-001
	0930	S	TI-3 2 ft	1		-002
	0945	S	TI-3 3 ft	1		-003
}	1000	S	TI-3 4 ft	1	}	-004
	1010	S	TI-1 Surface	1		-005
	1020	S	TI-1 1 ft	1		-006
}	1045	S	TI-1 2 ft	1	}	-007
	1055	S	TI-1 3 ft	1		-008
	1105	S	TI-4 Surface	1		-009
	1110	S	TI-4 1 ft	1	}	-010
					}	-011

Date	Time	Matrix	Sample Request ID
3/26	0900	S	$\pi$ -3 Surfer
{	0915	S	$\pi$ -3 1 Fr
	0930	S	$\pi$ -3 2 Fr
	0945	S	$\pi$ -3 3 Fr
	1000	S	$\pi$ -3 4 Fr
{	1010		$\pi$ -1 Surfer
	1020		$\pi$ -1 1 Fr
	1045		$\pi$ -1 2 Fr
	1055		$\pi$ -1 3 Fr
{	1105		$\pi$ -4 Surfer
	1110		$\pi$ -4 1 Fr

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/27	0800	SN	[Signature]	3/28/19	0700
3/27/19	1900	[Signature]	Kub	3/28/19	8:50

Date:	13/27	Time:	0800	Relinquished by:	GA [Signature]
Date:	12/19	Time:	1900	Relinquished by:	[Signature]



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



## Analysis Request

Project Manager:	Allard, Bob	
Sampler:	Senjunt	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Sample Temperature:	2.4°C	

email or Fax#:	
QA/QC Package:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
Accreditation	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____
<input type="checkbox"/> EDD (Type)	_____

Container Type and #	Preservative Type	HEAL No.
1	pent	1903D660
1		-001
1		-002
1		-003
1		-004
1		-005
1		-006
1		-007
1		-008
1		-009
1		-010
1		-011

Date	Time	Matrix	Sample Request ID
3/26	0900	S	$\pi$ -3 Surfer
{	0915	S	$\pi$ -3 1 Fr
	0930	S	$\pi$ -3 2 Fr
	0945	S	$\pi$ -3 3 Fr
	1000	S	$\pi$ -3 4 Fr
{	1010		$\pi$ -1 Surfer
	1020		$\pi$ -1 1 Fr
	1045		$\pi$ -1 2 Fr
	1055		$\pi$ -1 3 Fr
{	1105		$\pi$ -4 Surfer
	1110		$\pi$ -4 1 Fr

	Received by: 	Date	Time
	Received by: 	Date	Time
		3/28/19	0700
		3/28/19	9:50

Date:	13/27	Time:	0800	Relinquished by:	GA [Signature]
Date:	12/19	Time:	1900	Relinquished by:	[Signature]

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

<b>Chain-of-Custody Record</b>		Turn-Around Time:
Client: <u>Safety &amp; Environmental Solutions</u>	Project Name: <u>Bret Brown</u>	<u>5 Day Mail</u>
Mailing Address: <u>703 E. Clearview</u>	Project #: <u>WZ000007 711 Btting</u>	<input type="checkbox"/> Standard <input type="checkbox"/> Rush
Phone #: <u>575-397-0510</u>	Project Manager: <u>Allen, Bob</u>	
email or Fax#:		
QA/QC Package:		
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		
Accreditation		
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		
<input type="checkbox"/> EDD (Type) _____		
	Sampler: <u>SPJ</u>	
	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Sample Temperature: <u>24.0</u>	

Turn-Around Time:	5 Day Rush
	<input type="checkbox"/> Standard <input type="checkbox"/> Rush
Project Name:	Brietbowry
	Wavered 711 Betty
Project #:	BRE-18-007
Project Manager:	Allen, Bob
Sampler:	Sam Jey
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Sample Temperature:	24°C

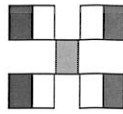
Project Manager:	Allen, Bob	
Sampler:	Srn Juy	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Sample Temperature:	24.0	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5/3/26	1120	S	11-5 Surface	1	rust	1903D60
}	1125	S	11-5 1Ft	1	}	-012
	1155	S	11-2 Surface	1		-013
}	1200	S	11-2 1Ft	1	}	-014
	1215	S	11-2 2Ft	1		-015
						-016

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/27/19	0800	[Signature]	[Signature]	3/27/19	0700
Date:	Time:	Relinquished by:	Received by:	Date	Time
3/27/19	1900	[Signature]	[Signature]	3/28/19	8:50

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this



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## Analysis Request

[illegible]

Remarks:	
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if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

## **Appendix D**

### **Site Photos**

## Breitburn 647-711 Battery

Drone Photos 9-10-18





