

Breitburn Operating LP

Jalmat 192

Work Plan

**Section 11, Township 22S, Range 35E
Lea County, New Mexico**

September 11, 2019



Prepared for:

**Maverick Resources
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	Maverick Resources	(432) 523-1807	Thomas.haigood@mavresources.com
Bob Allen	SESI	(575) 397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Maverick Resources to assess a spill on Jalmat Field Yates Sand Unit #192, concernin a 70 bbls spill of produced water. The spill area was mapped using a handheld Juno 3B. According to the mapped area the spill impacted approximately 1,232 square yards. This site is situated in Section 11, Township 22S, and Range 35E.

According to the C-141: A 2" casing riser at the wellhead developed a hole due to oberpressure in the tubing, causing fluid to escape. Most of the impact was contained on the pad area, while impacting approximately 352 sq. yards of pasture area.

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 185' bgs., as documented for the depth to water in Section 14.

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) for depths to groundwater >300' 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 levels of 20,000 Mg/kg, furthermore 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**
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 August 27, 2019 SESI personnel, together with personnel and equipment from Custom Welding of Hobbs, NM were on site to advance soil testing trenches. Six test trenches locations were designated and flagged in order to delineate the spill area vertically, and horizontally. Soil samples were grabbed at surface and one foot increments and field tested for Total Petroleum Hydrocarbons and Chlorides. All soil samples were properly packaged, preserved and transported to Hall Environmental Analysis Laboratory of Albuquerque, NM via chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), BTEX, and Chlorides (Method SM4500Cl-B). The lab results are recapped in the following table:

Breitburn Operating LP Jalmat #192 Soil Sample Results: Cardinal Laboratories 9-06-2018									
SAMPLE ID	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO	EXT DRO
TT-1 @ 1ft	ND	ND	ND	ND	ND	3500	ND	ND	ND
TT-1 @ 2ft	ND	ND	ND	ND	ND	2000	ND	ND	ND
TT-1 @ 3ft	ND	ND	ND	ND	ND	250	ND	ND	ND
TT-2 @ Surface	ND	ND	ND	ND	ND	30000	ND	12	57
TT-2 @ 1ft	ND	ND	ND	ND	ND	4700	ND	ND	ND
TT-2 @ 2ft	ND	ND	ND	ND	ND	970	ND	ND	ND
TT-2 @ 3ft	ND	ND	ND	ND	ND	250	ND	ND	ND
TT-3 @ Surface	ND	ND	ND	ND	ND	16000	ND	ND	ND
TT-3 @ 1ft	ND	ND	ND	ND	ND	5800	ND	ND	ND
TT-3 @ 2ft	ND	ND	ND	ND	ND	1300	ND	ND	ND
TT-4 @ Surface	ND	ND	ND	ND	ND	12000	ND	500	400
TT-4 @ 1ft	ND	ND	ND	ND	ND	5500	ND	27	51
TT-4 @ 2ft	ND	ND	ND	ND	ND	1400	ND	ND	ND
TT-5 @ Surface	ND	ND	ND	ND	ND	46000	ND	1300	1900
TT-5 @ 1ft	ND	ND	ND	ND	ND	3200	ND	14	ND
TT-5 @ 2ft	ND	ND	ND	ND	ND	1300	ND	ND	ND
TT-6 @ Surface	ND	ND	ND	ND	ND	66000	ND	790	1400
TT-6 @ 1ft	ND	ND	ND	ND	ND	7600	ND	250	690
TT-6 @ 2ft	ND	ND	ND	ND	ND	1500	ND	ND	ND

VI. Action Plan

The results of the samples listed above indicate no BTEX present in any of the samples. SESI proposes to excavated the pad area, whereby the Recommended Remediation Levels are < 20,000 ppm for the Chloride Constituency, and < 2,500 ppm for Total Petroleum Hydrocarbons. The pasture are is to be remediated to the extent that Chloride levels are below 600 ppm, or background, and TPH concentrations of less than 100 mg/kg.

The horizontal extent of contamination will be determined by side wall samples to be taken at the time of excavation. Vertical remediation will be documented with bottom soil grab sample laboratory confirmation of RL's. The excavated area in the pasture will be backfilled with uncontaminated soil, and reseeded. All contaminated soil will be transported to an NMOCD approved facility, and documented via disposal manifests. The pad area will be backfilled with like material and returned to grade. Upon completion of all approved remediation activity; all necessary closure documentation will be submitted to the appropriate regulatory agencies, and parties of concern.

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

Jalmat 192

Site Plan

Legend

- Initial Sample Points
- × Oil or Gas Well
- TT=Test Trench
- 🔴 Spill Area



Appendix A
C-141

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 Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
CP 00593 POD1	CP	LE	LE	4	4	06	22S	35E		650422	3587591*	62		
CP 00594 POD1	CP	LE	LE	2	1	34	22S	35E		654553	3580819*	98		
CP 00595 POD1	CP	LE	LE	2	2	20	22S	35E		652089	3584000*	96		
CP 00753	CP	LE	LE	2	2	14	22S	35E		656891	3585687*	215	185	30
												Average Depth to Water:		185 feet
												Minimum Depth:		185 feet
												Maximum Depth:		185 feet

Record Count: 4

PLSS Search:

Township: 22S **Range:** 35E

*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.

9/11/19 2:13 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C

Analytical Results



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

September 06, 2019

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

RE: Maverick Jalmat 192

OrderNo.: 1908G52

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 19 sample(s) on 8/28/2019 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 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 white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-1 1ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 8:30:00 AM

Lab ID: 1908G52-001

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3500	150		mg/Kg	50	9/5/2019 2:52:26 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/30/2019 9:43:00 PM	47154
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/30/2019 9:43:00 PM	47154
Surr: DNOP	94.0	70-130		%Rec	1	8/30/2019 9:43:00 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/29/2019 7:01:25 PM	47144
Surr: BFB	98.0	77.4-118		%Rec	1	8/29/2019 7:01:25 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/29/2019 7:01:25 PM	47144
Toluene	ND	0.049		mg/Kg	1	8/29/2019 7:01:25 PM	47144
Ethylbenzene	ND	0.049		mg/Kg	1	8/29/2019 7:01:25 PM	47144
Xylenes, Total	ND	0.098		mg/Kg	1	8/29/2019 7:01:25 PM	47144
Surr: 4-Bromofluorobenzene	99.7	80-120		%Rec	1	8/29/2019 7:01:25 PM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-1 2ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 8:45:00 AM

Lab ID: 1908G52-002

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2000	60		mg/Kg	20	9/5/2019 3:29:28 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/30/2019 10:56:33 PM	47154
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/30/2019 10:56:33 PM	47154
Surr: DNOP	84.9	70-130		%Rec	1	8/30/2019 10:56:33 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/29/2019 8:11:41 PM	47144
Surr: BFB	90.2	77.4-118		%Rec	1	8/29/2019 8:11:41 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/29/2019 8:11:41 PM	47144
Toluene	ND	0.049		mg/Kg	1	8/29/2019 8:11:41 PM	47144
Ethylbenzene	ND	0.049		mg/Kg	1	8/29/2019 8:11:41 PM	47144
Xylenes, Total	ND	0.098		mg/Kg	1	8/29/2019 8:11:41 PM	47144
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	8/29/2019 8:11:41 PM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-1 3ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 9:00:00 AM

Lab ID: 1908G52-003

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	250	60		mg/Kg	20	9/5/2019 3:41:48 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/30/2019 11:21:08 PM	47154
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/30/2019 11:21:08 PM	47154
Surr: DNOP	86.7	70-130		%Rec	1	8/30/2019 11:21:08 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/29/2019 8:35:05 PM	47144
Surr: BFB	94.5	77.4-118		%Rec	1	8/29/2019 8:35:05 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/29/2019 8:35:05 PM	47144
Toluene	ND	0.048		mg/Kg	1	8/29/2019 8:35:05 PM	47144
Ethylbenzene	ND	0.048		mg/Kg	1	8/29/2019 8:35:05 PM	47144
Xylenes, Total	ND	0.097		mg/Kg	1	8/29/2019 8:35:05 PM	47144
Surr: 4-Bromofluorobenzene	95.1	80-120		%Rec	1	8/29/2019 8:35:05 PM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-2 Surface

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 9:15:00 AM

Lab ID: 1908G52-004

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	30000	1500		mg/Kg	500	9/5/2019 1:40:16 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	8/30/2019 1:46:09 PM	47154
Motor Oil Range Organics (MRO)	57	49		mg/Kg	1	8/30/2019 1:46:09 PM	47154
Surr: DNOP	98.3	70-130		%Rec	1	8/30/2019 1:46:09 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/29/2019 8:58:34 PM	47144
Surr: BFB	89.0	77.4-118		%Rec	1	8/29/2019 8:58:34 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/29/2019 8:58:34 PM	47144
Toluene	ND	0.050		mg/Kg	1	8/29/2019 8:58:34 PM	47144
Ethylbenzene	ND	0.050		mg/Kg	1	8/29/2019 8:58:34 PM	47144
Xylenes, Total	ND	0.10		mg/Kg	1	8/29/2019 8:58:34 PM	47144
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	8/29/2019 8:58:34 PM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-2 1ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 9:20:00 AM

Lab ID: 1908G52-005

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	4700	150		mg/Kg	50	9/5/2019 12:59:28 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/30/2019 11:45:34 PM	47154
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/30/2019 11:45:34 PM	47154
Surr: DNOP	91.7	70-130		%Rec	1	8/30/2019 11:45:34 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/29/2019 9:21:57 PM	47144
Surr: BFB	98.9	77.4-118		%Rec	1	8/29/2019 9:21:57 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/29/2019 9:21:57 PM	47144
Toluene	ND	0.050		mg/Kg	1	8/29/2019 9:21:57 PM	47144
Ethylbenzene	ND	0.050		mg/Kg	1	8/29/2019 9:21:57 PM	47144
Xylenes, Total	ND	0.099		mg/Kg	1	8/29/2019 9:21:57 PM	47144
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	8/29/2019 9:21:57 PM	47144

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

Qualifiers:	*	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 1908G52

Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-2 2ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 9:35:00 AM

Lab ID: 1908G52-006

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	970	60		mg/Kg	20	9/5/2019 4:43:30 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/31/2019 12:10:01 AM	47154
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2019 12:10:01 AM	47154
Surr: DNOP	86.6	70-130		%Rec	1	8/31/2019 12:10:01 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/29/2019 9:45:22 PM	47144
Surr: BFB	90.4	77.4-118		%Rec	1	8/29/2019 9:45:22 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/29/2019 9:45:22 PM	47144
Toluene	ND	0.049		mg/Kg	1	8/29/2019 9:45:22 PM	47144
Ethylbenzene	ND	0.049		mg/Kg	1	8/29/2019 9:45:22 PM	47144
Xylenes, Total	ND	0.098		mg/Kg	1	8/29/2019 9:45:22 PM	47144
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	8/29/2019 9:45:22 PM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-2 3ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 9:45:00 AM

Lab ID: 1908G52-007

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	250	60		mg/Kg	20	9/5/2019 4:55:50 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/31/2019 12:34:31 AM	47154
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2019 12:34:31 AM	47154
Surr: DNOP	87.6	70-130		%Rec	1	8/31/2019 12:34:31 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/29/2019 10:56:03 PM	47144
Surr: BFB	94.5	77.4-118		%Rec	1	8/29/2019 10:56:03 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/29/2019 10:56:03 PM	47144
Toluene	ND	0.049		mg/Kg	1	8/29/2019 10:56:03 PM	47144
Ethylbenzene	ND	0.049		mg/Kg	1	8/29/2019 10:56:03 PM	47144
Xylenes, Total	ND	0.098		mg/Kg	1	8/29/2019 10:56:03 PM	47144
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	8/29/2019 10:56:03 PM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-3 Surface

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 9:50:00 AM

Lab ID: 1908G52-008

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	16000	1500		mg/Kg	500	9/5/2019 1:52:41 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2019 12:58:59 AM	47154
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2019 12:58:59 AM	47154
Surr: DNOP	90.2	70-130		%Rec	1	8/31/2019 12:58:59 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/29/2019 11:19:50 PM	47144
Surr: BFB	90.9	77.4-118		%Rec	1	8/29/2019 11:19:50 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/29/2019 11:19:50 PM	47144
Toluene	ND	0.048		mg/Kg	1	8/29/2019 11:19:50 PM	47144
Ethylbenzene	ND	0.048		mg/Kg	1	8/29/2019 11:19:50 PM	47144
Xylenes, Total	ND	0.097		mg/Kg	1	8/29/2019 11:19:50 PM	47144
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	8/29/2019 11:19:50 PM	47144

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

Qualifiers:	*	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 1908G52

Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-3 1ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 9:55:00 AM

Lab ID: 1908G52-009

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5800	300		mg/Kg	100	9/5/2019 1:15:28 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/31/2019 1:23:28 AM	47154
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2019 1:23:28 AM	47154
Surr: DNOP	94.0	70-130		%Rec	1	8/31/2019 1:23:28 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/29/2019 11:43:32 PM	47144
Surr: BFB	92.6	77.4-118		%Rec	1	8/29/2019 11:43:32 PM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/29/2019 11:43:32 PM	47144
Toluene	ND	0.048		mg/Kg	1	8/29/2019 11:43:32 PM	47144
Ethylbenzene	ND	0.048		mg/Kg	1	8/29/2019 11:43:32 PM	47144
Xylenes, Total	ND	0.096		mg/Kg	1	8/29/2019 11:43:32 PM	47144
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	8/29/2019 11:43:32 PM	47144

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

Qualifiers:	*	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 1908G52

Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-3 2ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 10:05:00 AM

Lab ID: 1908G52-010

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1300	60		mg/Kg	20	9/5/2019 5:32:52 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2019 1:47:53 AM	47154
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2019 1:47:53 AM	47154
Surr: DNOP	91.4	70-130		%Rec	1	8/31/2019 1:47:53 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2019 12:07:11 AM	47144
Surr: BFB	93.6	77.4-118		%Rec	1	8/30/2019 12:07:11 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/30/2019 12:07:11 AM	47144
Toluene	ND	0.050		mg/Kg	1	8/30/2019 12:07:11 AM	47144
Ethylbenzene	ND	0.050		mg/Kg	1	8/30/2019 12:07:11 AM	47144
Xylenes, Total	ND	0.099		mg/Kg	1	8/30/2019 12:07:11 AM	47144
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	8/30/2019 12:07:11 AM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-4 Surface

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 10:15:00 AM

Lab ID: 1908G52-011

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	12000	600		mg/Kg	200	9/5/2019 2:17:29 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	500	9.8		mg/Kg	1	8/30/2019 2:27:47 PM	47154
Motor Oil Range Organics (MRO)	400	49		mg/Kg	1	8/30/2019 2:27:47 PM	47154
Surr: DNOP	114	70-130		%Rec	1	8/30/2019 2:27:47 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/30/2019 12:30:46 AM	47144
Surr: BFB	97.6	77.4-118		%Rec	1	8/30/2019 12:30:46 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/30/2019 12:30:46 AM	47144
Toluene	ND	0.047		mg/Kg	1	8/30/2019 12:30:46 AM	47144
Ethylbenzene	ND	0.047		mg/Kg	1	8/30/2019 12:30:46 AM	47144
Xylenes, Total	ND	0.095		mg/Kg	1	8/30/2019 12:30:46 AM	47144
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	8/30/2019 12:30:46 AM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-4 1ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 10:35:00 AM

Lab ID: 1908G52-012

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	5500	300		mg/Kg	100	9/5/2019 1:27:52 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	27	9.8		mg/Kg	1	8/30/2019 2:03:17 PM	47154
Motor Oil Range Organics (MRO)	51	49		mg/Kg	1	8/30/2019 2:03:17 PM	47154
Surr: DNOP	113	70-130		%Rec	1	8/30/2019 2:03:17 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/30/2019 12:54:24 AM	47144
Surr: BFB	91.9	77.4-118		%Rec	1	8/30/2019 12:54:24 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/30/2019 12:54:24 AM	47144
Toluene	ND	0.048		mg/Kg	1	8/30/2019 12:54:24 AM	47144
Ethylbenzene	ND	0.048		mg/Kg	1	8/30/2019 12:54:24 AM	47144
Xylenes, Total	ND	0.097		mg/Kg	1	8/30/2019 12:54:24 AM	47144
Surr: 4-Bromofluorobenzene	91.7	80-120		%Rec	1	8/30/2019 12:54:24 AM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-4 2ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 10:45:00 AM

Lab ID: 1908G52-013

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1400	60		mg/Kg	20	9/5/2019 6:09:54 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/31/2019 2:12:18 AM	47154
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2019 2:12:18 AM	47154
Surr: DNOP	99.2	70-130		%Rec	1	8/31/2019 2:12:18 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/30/2019 1:18:03 AM	47144
Surr: BFB	91.3	77.4-118		%Rec	1	8/30/2019 1:18:03 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/30/2019 1:18:03 AM	47144
Toluene	ND	0.048		mg/Kg	1	8/30/2019 1:18:03 AM	47144
Ethylbenzene	ND	0.048		mg/Kg	1	8/30/2019 1:18:03 AM	47144
Xylenes, Total	ND	0.096		mg/Kg	1	8/30/2019 1:18:03 AM	47144
Surr: 4-Bromofluorobenzene	91.5	80-120		%Rec	1	8/30/2019 1:18:03 AM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-5 Surface

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 10:55:00 AM

Lab ID: 1908G52-014

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	46000	1500		mg/Kg	500	9/5/2019 2:05:05 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1300	95		mg/Kg	10	8/30/2019 4:22:46 PM	47154
Motor Oil Range Organics (MRO)	1900	470		mg/Kg	10	8/30/2019 4:22:46 PM	47154
Surr: DNOP	0	70-130	S	%Rec	10	8/30/2019 4:22:46 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/30/2019 1:41:46 AM	47144
Surr: BFB	90.8	77.4-118		%Rec	1	8/30/2019 1:41:46 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/30/2019 1:41:46 AM	47144
Toluene	ND	0.049		mg/Kg	1	8/30/2019 1:41:46 AM	47144
Ethylbenzene	ND	0.049		mg/Kg	1	8/30/2019 1:41:46 AM	47144
Xylenes, Total	ND	0.098		mg/Kg	1	8/30/2019 1:41:46 AM	47144
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	8/30/2019 1:41:46 AM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-5 1ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 11:10:00 AM

Lab ID: 1908G52-015

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	3200	150		mg/Kg	50	9/5/2019 1:03:03 PM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	14	9.1		mg/Kg	1	8/30/2019 10:40:39 AM	47154
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/30/2019 10:40:39 AM	47154
Surr: DNOP	108	70-130		%Rec	1	8/30/2019 10:40:39 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/30/2019 2:05:21 AM	47144
Surr: BFB	103	77.4-118		%Rec	1	8/30/2019 2:05:21 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/30/2019 2:05:21 AM	47144
Toluene	ND	0.048		mg/Kg	1	8/30/2019 2:05:21 AM	47144
Ethylbenzene	ND	0.048		mg/Kg	1	8/30/2019 2:05:21 AM	47144
Xylenes, Total	ND	0.097		mg/Kg	1	8/30/2019 2:05:21 AM	47144
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/30/2019 2:05:21 AM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-5 2ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 11:25:00 AM

Lab ID: 1908G52-016

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1300	59		mg/Kg	20	9/5/2019 1:26:01 AM	47249
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	8/31/2019 2:36:45 AM	47154
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/31/2019 2:36:45 AM	47154
Surr: DNOP	98.0	70-130		%Rec	1	8/31/2019 2:36:45 AM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/30/2019 2:29:06 AM	47144
Surr: BFB	97.3	77.4-118		%Rec	1	8/30/2019 2:29:06 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/30/2019 2:29:06 AM	47144
Toluene	ND	0.049		mg/Kg	1	8/30/2019 2:29:06 AM	47144
Ethylbenzene	ND	0.049		mg/Kg	1	8/30/2019 2:29:06 AM	47144
Xylenes, Total	ND	0.099		mg/Kg	1	8/30/2019 2:29:06 AM	47144
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	8/30/2019 2:29:06 AM	47144

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

Qualifiers:	*	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 1908G52

Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-6 Surface

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 11:35:00 AM

Lab ID: 1908G52-017

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	66000	3000		mg/Kg	1E+	9/5/2019 12:47:03 PM	47268
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	790	95		mg/Kg	10	8/30/2019 5:07:07 PM	47154
Motor Oil Range Organics (MRO)	1400	480		mg/Kg	10	8/30/2019 5:07:07 PM	47154
Surr: DNOP	0	70-130	S	%Rec	10	8/30/2019 5:07:07 PM	47154
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/30/2019 3:16:47 AM	47144
Surr: BFB	90.3	77.4-118		%Rec	1	8/30/2019 3:16:47 AM	47144
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	8/30/2019 3:16:47 AM	47144
Toluene	ND	0.050		mg/Kg	1	8/30/2019 3:16:47 AM	47144
Ethylbenzene	ND	0.050		mg/Kg	1	8/30/2019 3:16:47 AM	47144
Xylenes, Total	ND	0.099		mg/Kg	1	8/30/2019 3:16:47 AM	47144
Surr: 4-Bromofluorobenzene	89.3	80-120		%Rec	1	8/30/2019 3:16:47 AM	47144

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-6 1ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 11:50:00 AM

Lab ID: 1908G52-018

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	7600	300		mg/Kg	100	9/5/2019 12:09:49 PM	47268
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	250	98		mg/Kg	10	9/5/2019 9:36:03 AM	47187
Motor Oil Range Organics (MRO)	690	490		mg/Kg	10	9/5/2019 9:36:03 AM	47187
Surr: DNOP	0	70-130	S	%Rec	10	9/5/2019 9:36:03 AM	47187
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/30/2019 9:52:01 PM	47173
Surr: BFB	88.2	77.4-118		%Rec	1	8/30/2019 9:52:01 PM	47173
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/30/2019 9:52:01 PM	47173
Toluene	ND	0.048		mg/Kg	1	8/30/2019 9:52:01 PM	47173
Ethylbenzene	ND	0.048		mg/Kg	1	8/30/2019 9:52:01 PM	47173
Xylenes, Total	ND	0.095		mg/Kg	1	8/30/2019 9:52:01 PM	47173
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	8/30/2019 9:52:01 PM	47173

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

Qualifiers:	*	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 1908G52
 Date Reported: 9/6/2019

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-6 2ft.

Project: Maverick Jalmat 192

Collection Date: 8/27/2019 12:10:00 PM

Lab ID: 1908G52-019

Matrix: SOIL

Received Date: 8/28/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	1500	60		mg/Kg	20	9/4/2019 7:22:13 PM	47268
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/3/2019 10:14:30 AM	47187
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2019 10:14:30 AM	47187
Surr: DNOP	105	70-130		%Rec	1	9/3/2019 10:14:30 AM	47187
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/30/2019 11:02:53 PM	47173
Surr: BFB	92.6	77.4-118		%Rec	1	8/30/2019 11:02:53 PM	47173
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/30/2019 11:02:53 PM	47173
Toluene	ND	0.049		mg/Kg	1	8/30/2019 11:02:53 PM	47173
Ethylbenzene	ND	0.049		mg/Kg	1	8/30/2019 11:02:53 PM	47173
Xylenes, Total	ND	0.097		mg/Kg	1	8/30/2019 11:02:53 PM	47173
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	8/30/2019 11:02:53 PM	47173

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908G52

06-Sep-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 192

Sample ID: MB-47268	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 47268	RunNo: 62664								
Prep Date: 9/4/2019	Analysis Date: 9/4/2019	SeqNo: 2133793	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-47268	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 47268	RunNo: 62664								
Prep Date: 9/4/2019	Analysis Date: 9/4/2019	SeqNo: 2133794	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	101	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908G52

06-Sep-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 192

Sample ID: MB-47154	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47154	RunNo: 62583								
Prep Date: 8/29/2019	Analysis Date: 8/30/2019	SeqNo: 2129832	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.6	70	130			

Sample ID: LCS-47154	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47154	RunNo: 62583								
Prep Date: 8/29/2019	Analysis Date: 8/30/2019	SeqNo: 2129834	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.8	63.9	124			
Surr: DNOP	4.5		5.000		89.3	70	130			

Sample ID: 1908G52-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TT-1 1ft.	Batch ID: 47154	RunNo: 62583								
Prep Date: 8/29/2019	Analysis Date: 8/30/2019	SeqNo: 2129839	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	49.95	0	83.0	57	142			
Surr: DNOP	4.2		4.995		84.9	70	130			

Sample ID: 1908G52-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TT-1 1ft.	Batch ID: 47154	RunNo: 62583								
Prep Date: 8/29/2019	Analysis Date: 8/30/2019	SeqNo: 2129841	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.4	46.95	0	84.2	57	142	4.69	20	
Surr: DNOP	4.2		4.695		88.7	70	130	0	0	

Sample ID: LCS-47187	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47187	RunNo: 62625								
Prep Date: 8/30/2019	Analysis Date: 9/3/2019	SeqNo: 2131974	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	63.9	124			
Surr: DNOP	4.8		5.000		95.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908G52

06-Sep-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 192

Sample ID: MB-47187	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47187	RunNo: 62625								
Prep Date: 8/30/2019	Analysis Date: 9/3/2019	SeqNo: 2131975	Units: mg/Kg							
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	12		10.00		116	70	130			

Sample ID: LCS-47254	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 47254	RunNo: 62660								
Prep Date: 9/4/2019	Analysis Date: 9/5/2019	SeqNo: 2133502	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.6	70	130			

Sample ID: MB-47254	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 47254	RunNo: 62660								
Prep Date: 9/4/2019	Analysis Date: 9/5/2019	SeqNo: 2133503	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908G52

06-Sep-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 192

Sample ID: MB-47144	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 47144		RunNo: 62533							
Prep Date: 8/28/2019	Analysis Date: 8/29/2019		SeqNo: 2127343		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.6	77.4	118			

Sample ID: LCS-47144	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 47144		RunNo: 62533							
Prep Date: 8/28/2019	Analysis Date: 8/29/2019		SeqNo: 2127344		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	80	120			
Surr: BFB	1000		1000		103	77.4	118			

Sample ID: MB-47173	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 47173		RunNo: 62566							
Prep Date: 8/29/2019	Analysis Date: 8/30/2019		SeqNo: 2129020		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.9	77.4	118			

Sample ID: LCS-47173	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 47173		RunNo: 62566							
Prep Date: 8/29/2019	Analysis Date: 8/30/2019		SeqNo: 2129021		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	86.0	80	120			
Surr: BFB	1000		1000		100	77.4	118			

Sample ID: 1908G52-018AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TT-6 1ft.	Batch ID: 47173		RunNo: 62566							
Prep Date: 8/29/2019	Analysis Date: 8/30/2019		SeqNo: 2129029		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.53	0	93.3	69.1	142			
Surr: BFB	1000		981.4		102	77.4	118			

Sample ID: 1908G52-018AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TT-6 1ft.	Batch ID: 47173		RunNo: 62566							
Prep Date: 8/29/2019	Analysis Date: 8/30/2019		SeqNo: 2129030		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908G52

06-Sep-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 192

Sample ID: 1908G52-018AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TT-6 1ft.	Batch ID: 47173	RunNo: 62566								
Prep Date: 8/29/2019	Analysis Date: 8/30/2019	SeqNo: 2129030			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.65	0	98.0	69.1	142	5.34	20	
Surr: BFB	1100		986.2		109	77.4	118	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908G52

06-Sep-19

Client: Safety & Environmental Solutions
Project: Maverick Jalmat 192

Sample ID: MB-47144	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 47144	RunNo: 62533								
Prep Date: 8/28/2019	Analysis Date: 8/29/2019	SeqNo: 2127381	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Sample ID: LCS-47144	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 47144	RunNo: 62533								
Prep Date: 8/28/2019	Analysis Date: 8/29/2019	SeqNo: 2127382	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Sample ID: 1908G52-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TT-1 1ft.	Batch ID: 47144	RunNo: 62533								
Prep Date: 8/28/2019	Analysis Date: 8/29/2019	SeqNo: 2127384	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9950	0	102	76	123			
Toluene	1.1	0.050	0.9950	0.009547	107	80.3	127			
Ethylbenzene	1.1	0.050	0.9950	0	111	80.2	131			
Xylenes, Total	3.3	0.10	2.985	0	111	78	133			
Surr: 4-Bromofluorobenzene	0.95		0.9950		95.1	80	120			

Sample ID: 1908G52-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TT-1 1ft.	Batch ID: 47144	RunNo: 62533								
Prep Date: 8/28/2019	Analysis Date: 8/29/2019	SeqNo: 2127385	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9833	0	103	76	123	0.666	20	
Toluene	1.1	0.049	0.9833	0.009547	111	80.3	127	2.13	20	
Ethylbenzene	1.1	0.049	0.9833	0	114	80.2	131	1.20	20	
Xylenes, Total	3.4	0.098	2.950	0	115	78	133	1.96	20	
Surr: 4-Bromofluorobenzene	0.96		0.9833		97.6	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908G52

06-Sep-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 192

Sample ID: MB-47173	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 47173	RunNo: 62566								
Prep Date: 8/29/2019	Analysis Date: 8/30/2019	SeqNo: 2129059	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	80	120			

Sample ID: LCS-47173	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 47173	RunNo: 62566								
Prep Date: 8/29/2019	Analysis Date: 8/30/2019	SeqNo: 2129060	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	80	120			

Qualifiers:

- | | |
|---|---|
| * 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
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1908G52

RcptNo: 1

Received By: *Daniel M.* 8/28/2019 8:45:00 AM

Completed By: Michelle Garcia 8/28/2019 2:05:56 PM

Michelle Garcia

Reviewed By: DAD 8/28/19

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.)

TO 8/28/19

of preserved bottles checked for pH: _____
 (<8 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Yes			
2	4.0	Good	Yes			

Chain-of-Custody Record

Client: State of New Mexico
Solutions
 Mailing Address: 1703 E. Clinton
Albuquerque, NM 87102
 Phone #: 575-397-0520
 email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Date	Time	Matrix	Sample Name
08/27	0830	S	T-1 1A
	0845		T-1 2A
	0900		T-1 3A
	0915		T-2 Surface
	0920		T-2 1A
	0925		T-2 2A
	0945		T-2 3A
	0950		T-3 Surface
	0955		T-3 1A
	1005		T-3 2A
	1015		T-4 Surface
	1035		T-4 1A

Date: 08/27 Time: 1500 Relinquished by: Sam Jones
 Date: 8/27/19 Time: 1900 Relinquished by: [Signature]

Turn-Around Time:
 Standard Rush
 Project Name: Montic

JANUARY 19Z
 Project #: MAN-19-010

Project Manager:
Allen, Bob

Sampler: Sam Jones
 On Ice: Yes No
 # of Coolers: 2
 Cooler Temp (including CFI): 5/10/3/4/4/4/0/2

Container Type and #	Preservative Type	HEAL No
1	Ice	-001
1	None	-002
1	None	-003
1	None	-004
1	None	-005
1	None	-006
1	None	-007
1	None	-008
1	None	-01009
1	None	-010
1	None	-01211
1	None	-010

Received by: [Signature] Date: 8/27/19 Time: 1400
 Received by: [Signature] Date: 8/28/19 Time: 8:45



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMBs (8021)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<input checked="" type="checkbox"/>

Remarks:
Chlorides

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

Maverick Resources
Jalmat 192

