

CLOSURE REPORT

Property:

Breitburn Operating
Jalmat Field Yates Sand Unit No. 235
Lea County, New Mexico
Unit Letter "A", Section 11, Township 22 South, Range 35 East
Latitude 32.4108, Longitude -103.3310
1RP-5718

February 2020

Prepared for:

Breitburn Operating PO Box 678 Andrews, TX

Attn: Mr. Thomas Haigood

Prepared by:

Thomas Franklin Environmental Manager Taylor Rather
Environmental Coordinator

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CLOSURE REPORT

Maverick Natural Resources
Jalmat Field Yates Sand Unit No. 235
Lea County, New Mexico
Unit Letter "A", Section 11, Township 22 South, Range 35 East
Latitude 32.4108, Longitude -103.3310
1RP-5718

February 2020

1.0 INTRODUCTION

1.1 Site Description & Background

American Safety Services Inc. (ASSI) has prepared this Closure Report for the Breitburn Operating (i.e., Maverick Natural Resources) at the Jalmat Field Yates Sand Unit No. 235 (referred to hereinafter as the "Site" or "subject Site"). This Closure Report is based upon data collected by ASSI on February 2, 2020 and the interpretation of that data.

The Site is located in Unit Letter "A", Section 11, Township 22 South, Range 35 East, Lea County, New Mexico (GPS 32.4108, -103.3310). Figures 1, 2, and 3 in Appendix A show the Site location.

Remedial action was conducted in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), the New Mexico Oil Conservation Division (NMOCD), and rules under the New Mexico Administrative Code (*NMAC 19.15.29 Release Notification*).

1.2 Project Objective

The objective of the Closure Report is to present documentation of the remedial activities that were performed at the Site to the NMOCD.

1.3 Standard of Care

ASSI's services are performed in accordance with standards provided by a firm rendering the same or similar services in the area during the same time frame. ASSI makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, ASSI does not warranty the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed to by the client.

1.4 Reliance

This report has been prepared for the exclusive use of Breitburn Operating, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Breitburn Operating and ASSI. Any unauthorized distribution or reuse is at the sole risk of Breitburn Operating. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and ASSI's Agreement. The limitation of liability defined in the agreement is the aggregate limit of ASSI's liability to the client.

2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

To address activities related to releases, the NMOCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the NMOCD rules, specifically NMAC 19.15.29.9 *Release Notification*. These documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the NMAC 19.15.29, ASSI utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Rankin	g Criteria		Ranking Score			
Death to Occupant	<50 feet	20	40			
Depth to Groundwater	50 to 99 feet	10	10			
	>100 feet	0				
Wellhead Protection Area,	Yes	20				
<1,000 feet from a water source, or; <200 feet from private domestic water source.	No	0	0			
Distance to Surface	<200 feet	20				
	200 to 1,000 feet	10	0			
Water Body	>1,000 feet	0				
Total Rai	Total Ranking Score					

Based on ASSI's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 10. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone fifty to ninety-nine feet at the Site.
- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

Based on a Total Ranking Score of 10, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for Benzene, 50 mg/Kg for Total Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), 2,500 mg/Kg for Total Petroleum Hydrocarbons (TPH) and 10,000 mg/Kg for Chloride.

Figure 4 shows the location of the Site in Lea Co, New Mexico and surrounding topography.

3.0 INITIAL RESPONSE & SAMPLING ACTIVITIES

3.1 Initial Response

On February 2, 2020, ASSI personnel performed a site inspection in response to a release of fifteen (15) barrels (bbls) of produced water (1RP-5718). The cause of the release was due to a 2-inch injection line valve being inadvertently opened, which in turn allowed the release to occur directly on to the ground. None of the fluid was recovered. The release footprint was determined to be approximately twenty-two thousand five hundred (22,500) square feet of production pad.

3.2 Soil Sampling Activities

Initial sampling activities were conducted on February 2nd by ASSI personnel, using a stainless-steel hand auger. Five (5) auger holes were installed at discrete locations collecting material at intervals ranging from surface to two (2) foot below ground surface (bgs). Table 1 in Appendix B presents analytical results. Figure 3 in Appendix A shows auger hole locations. Soil was field screened for Chloride utilizing an electro conductivity meter during sampling activities.

3.3 Soil Sampling Analytical Results

Thirteen (13) soil samples were collected during initial sampling activities from sample locations Auger Hole-1 through Auger Hole-5. On February 2nd, samples were delivered by ASSI personnel for laboratory analysis. The samples were analyzed for BTEX, TPH, and Chloride (Table 1). Analytical results were compared to *Table I of the NMAC 19.15.29.12* and show BTEX, TPH, and Chloride concentrations are not above NMOCD guidelines for clean-up goals at sample locations Auger Hole-1 through Auger Hole-5.

4.0 LABORATORY ANALYTICAL METHODS

The samples were analyzed for BTEX using EPA method EPA 8021B, TPH utilizing EPA method SW8015 Mod, and Chloride utilizing EPA method 300. Laboratory analysis is provided in Appendix D.

Soil was collected in laboratory prepared glassware, placed on ice, and packed in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Xenco Laboratories in Midland, TX for a normal turn-around time.

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Figure 3 in Appendix A indicates the approximate location of the auger holes installed within the release footprint and in relation to pertinent land features.

5.0 CONCLUSION

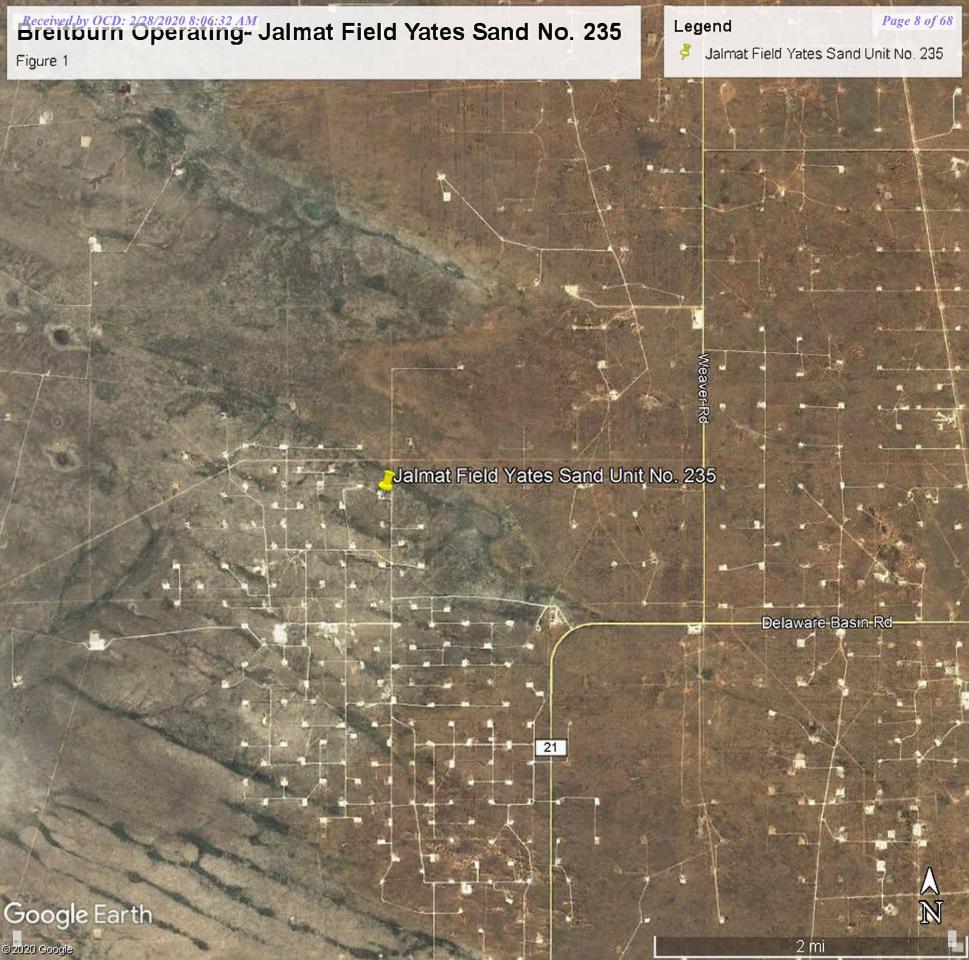
Based upon the samples collected and interpretation of the analytical data by ASSI, the constituents of concern (COCs) has been vertically delineated.

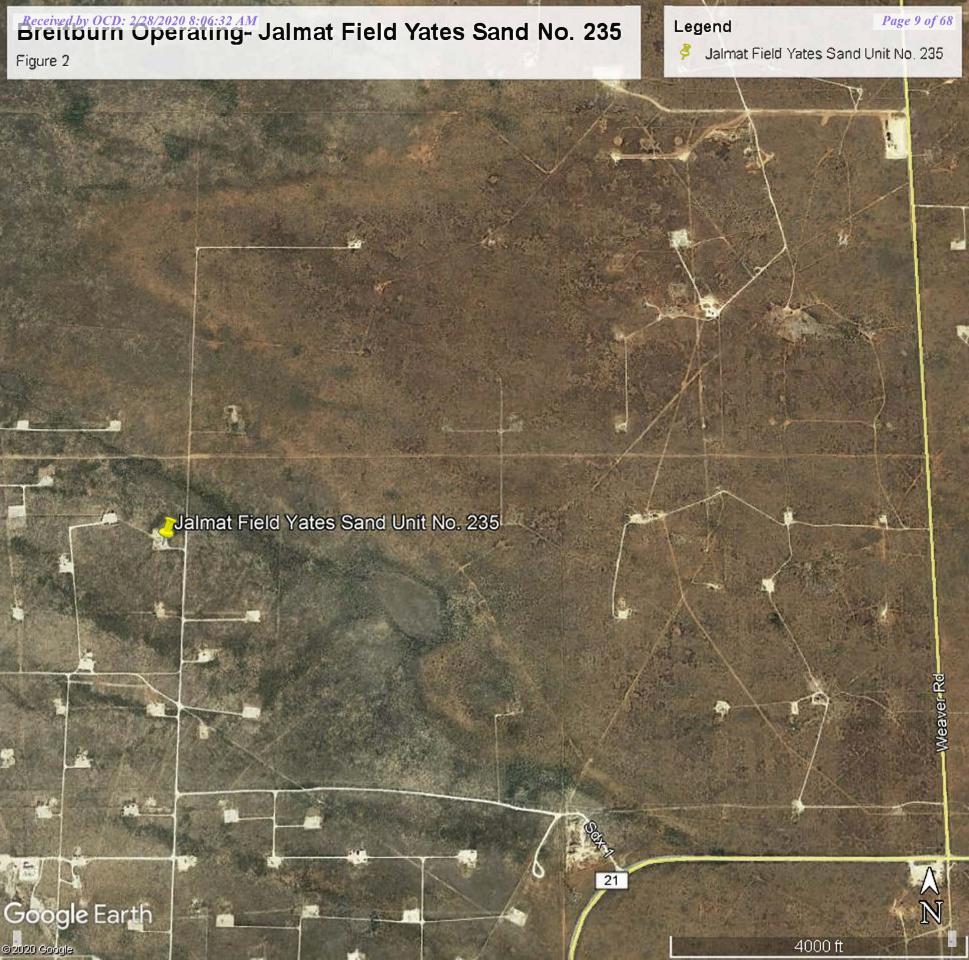
Based on the analytical data presented in Table 1, ASSI on behalf of Breitburn Operating, recommends foregoing any further remedial action and proposes to close the Site per NMOCD rules.

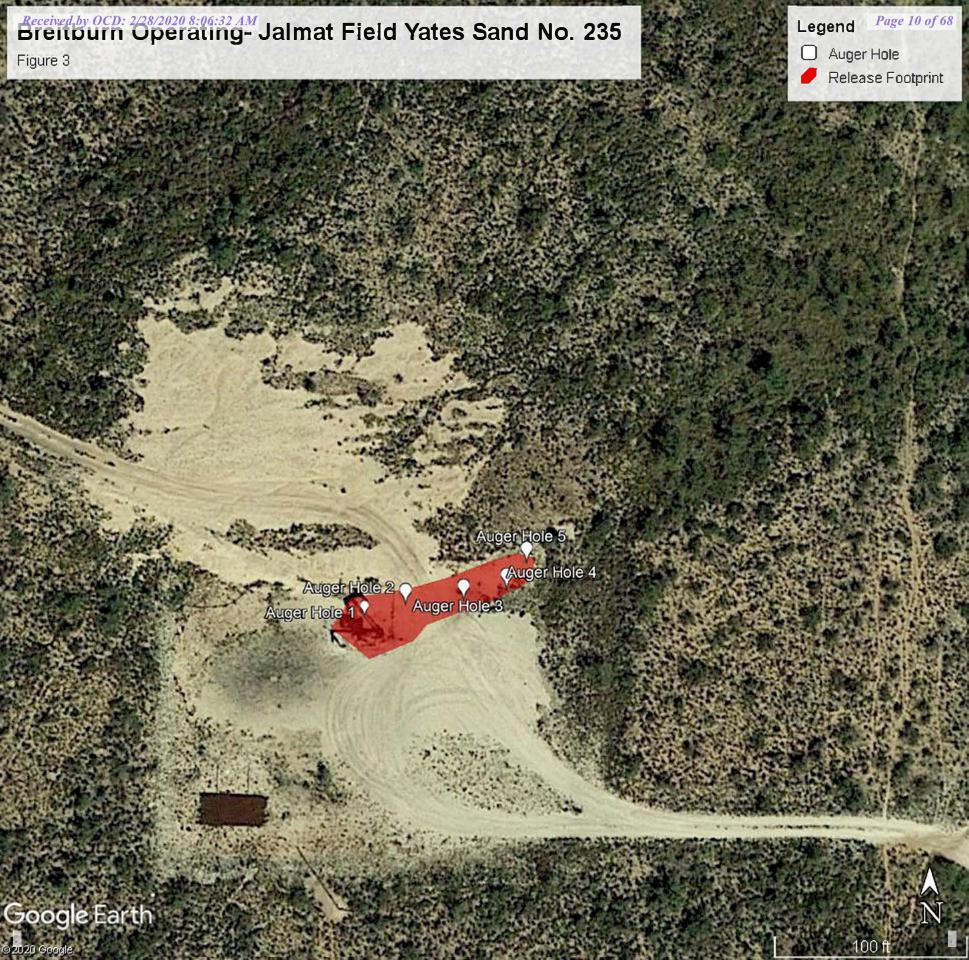


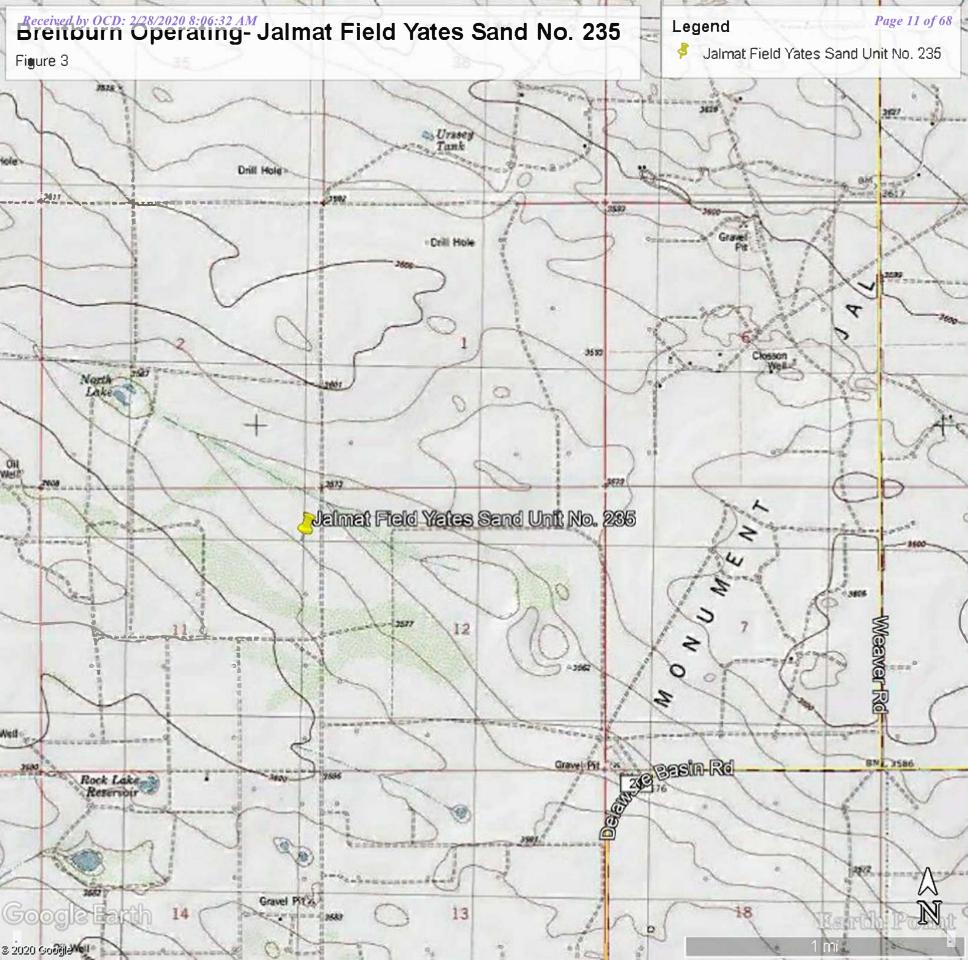
APPENDIX A

Figures











APPENDIX B

Table 1

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TABLE 1

Summary of Delineation Sampling Analytical Results Concentrations of Benzene, BTEX, TPH & Chloride in Soil Breitburn Operating (Maverick Natural Resources)

Lea County, New Mexico 1RP-5718

						1RP-5718							
						8021B				80:	15M		EPA 300
SAMPLE LOCATION	SAMPLE DEPTH feet (bgs)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	MRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
	NMAC 19.15.29			10	NE	NE	NE	50	1,	000	NE	2,500	10,000
					De	lination Sampling							
Auger Hole 1	0-1'	2/2/2020	In-situ	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50	3,713.8
Auger Hole 1	1'-1.5'	2/2/2020	In-situ	<0.00200	<0.00200	<0.00200	<0.002	<0.002	<49.9	<49.9	<49.9	<49.9	3,021.2
Auger Hole 1	1.5'-2'	2/2/2020	In-situ	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50	1,689.9
Auger Hole 2	0-1'	2/2/2020	In-situ	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	3,288.7
Auger Hole 2	1'-1.5'	2/2/2020	In-situ	<0.00200	<0.00200	<0.00200	<0.002	<0.002	<49.9	<49.9	<49.9	<49.9	2,380.7
Auger Hole 2	1.5'-2'	2/2/2020	In-situ	<0.00200	<0.00200	<0.00200	<0.002	<0.002	<50.0	<50.0	<50.0	<50	1,807.2
Auger Hole 3	0-1'	2/2/2020	In-situ	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50	32.7
Auger Hole 3	1'-1.5'	2/2/2020	In-situ	<0.00200	<0.00200	<0.00200	<0.002	<0.002	<50.0	<50.0	<50.0	<50	37.8
Auger Hole 3	1.5'-2'	2/2/2020	In-situ	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	6.37
Auger Hole 4	0-1'	2/2/2020	In-situ	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50	<5.0000
Auger Hole 4	1'-1.5'	2/2/2020	In-situ	<0.00198	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	11
Auger Hole 4	1.5'-2'	2/2/2020	In-situ	<0.00200	<0.00200	<0.00200	<0.002	<0.002	<50.0	<50.0	<50.0	<50.0	<5.0302
Auger Hole 5	0-1'	2/2/2020	In-situ	<0.00198	<0.00200	<0.00200	<00.002	<0.002	<49.8	<49.8	<49.8	<49.8	<5.0100

mg/Kg - milligrams per Kilogram

NE - not established

In-situ - sample collected in-place

Total TPH reported values are rounded-off to 3-significant figures using the LIMS Odd/Even Rounding Rule which is a laboratory accepted standard

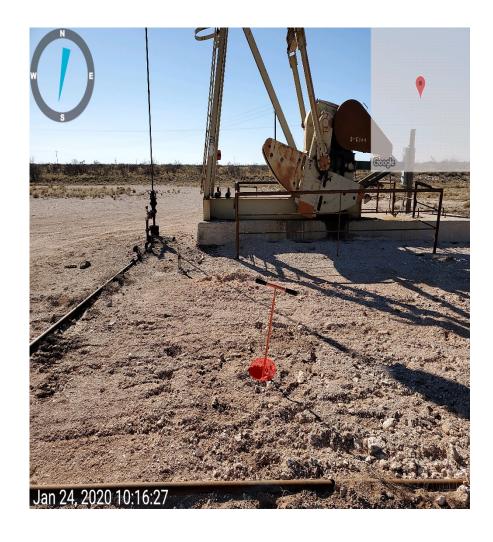


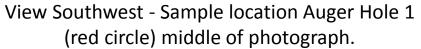
APPENDIX C

Photo Page

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View Southwest – Sample location Auger Hole 2 (red circle) middle of photograph.





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View Southwest - Sample location Auger Hole 3 (red circle) middle of photograph.



View Southwest – Sample location Auger Hole 4 (red circle) middle of photograph.





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View Southwest - Sample location Auger Hole 5 (red circle) middle of photograph.







APPENDIX D

Laboratory Analysis



Certificate of Analysis Summary 650605

American Safety Services, Odessa, TX

Project Name: Maverick Natural Resources-Jalmat 235

Date Received in Lab: Wed Jan-29-20 09:14 am

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Report Date: 04-FEB-20

Project Manager: Jessica Kramer



Project Id: Contact:

Project Location:

Thomas Franklin

Lea Co.NM

	Lab Id:	650605-0	001	650605-0	002	650605-	003	650605-0	004	650605-	005	650605-	006
Analysis Requested	Field Id:	Auger Ho	ole 1	Auger Ho	ole 1	Auger Ho	ole 1	Auger Ho	ole 2	Auger Ho	ole 2	Auger Hole 2	
Analysis Requested	Depth:	0.0-1.0	ft	1.0-1.5	ft	1.5-2.0	ft	0.0-1.0	ft	1.0-1.5	ft	1.5-2.0	ft
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	_
	Sampled:	Jan-24-20	09:00	Jan-24-20 09:02		Jan-24-20 09:04		Jan-24-20 09:09		Jan-24-20 09:11		Jan-24-20	09:13
BTEX by EPA 8021B	Extracted:	Feb-02-20	Feb-02-20 11:30		11:30	Feb-02-20	11:30	Feb-02-20	11:30	Feb-02-20	11:30	Feb-02-20	11:30
	Analyzed:	Feb-03-20	06:29	Feb-03-20	06:49	Feb-03-20	07:09	Feb-03-20	07:29	Feb-03-20	07:50	Feb-03-20	08:10
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene	·	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
Toluene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		< 0.00396	0.00396	< 0.00401	0.00401	< 0.00402	0.00402	< 0.00403	0.00403	< 0.00399	0.00399	< 0.00399	0.00399
o-Xylene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes		< 0.00198	0.00198	< 0.002	0.002	< 0.00201	0.00201	< 0.00202	0.00202	< 0.002	0.002	< 0.002	0.002
Total BTEX		< 0.00198	0.00198	< 0.002	0.002	< 0.00201	0.00201	< 0.00202	0.00202	< 0.002	0.002	< 0.002	0.002
Chloride by EPA 300	Extracted:	Jan-29-20	16:20	Jan-29-20	16:20	Jan-29-20	16:42	Jan-29-20	16:42	Jan-29-20	16:42	Jan-29-20	16:42
	Analyzed:	Jan-29-20	23:23	Jan-29-20	23:30	Jan-29-20	17:55	Jan-29-20	18:02	Jan-29-20	18:09	Jan-29-20	18:15
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		3713.8	24.802	3021.2	24.950	1689.9	24.950	3288.7	25.202	2380.7	25.050	1807.2	25.253
TPH by SW8015 Mod	Extracted:	Jan-29-20	15:00	Jan-29-20	15:00	Jan-29-20	15:00	Jan-29-20	15:00	Jan-29-20	15:00	Jan-29-20	15:00
	Analyzed:	Jan-29-20	22:08	Jan-29-20	23:12	Jan-29-20	23:33	Jan-29-20	23:54	Jan-30-20	00:15	Jan-30-20	00:35
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	·	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<49.8	49.8	<49.9	49.9	< 50.0	50.0
Diesel Range Organics (DRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<49.8	49.8	<49.9	49.9	< 50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<49.8	49.8	<49.9	49.9	< 50.0	50.0
Total TPH		< 50	50	<49.9	49.9	< 50	50	<49.8	49.8	<49.9	49.9	< 50	50

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%





Certificate of Analysis Summary 650605

American Safety Services, Odessa, TX

Project Name: Maverick Natural Resources-Jalmat 235

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Project Id: Contact:

Thomas Franklin

Project Location:

Lea Co.NM

Date Received in Lab: Wed Jan-29-20 09:14 am

Report Date: 04-FEB-20

Project Manager: Jessica Kramer

	Lab Id:	650605-0	007	650605-0	800	650605-0	009	650605-	010	650605-	011	650605-0	012
Analysis Paguastad	Field Id:	Auger Ho	ole 3	Auger Ho	le 3	Auger Ho	ole 3	Auger Ho	ole 4	Auger Ho	ole 4	Auger Hole 4	
Analysis Requested	Depth:	0.0-1.0	ft	1.0-1.5	ft	1.5-2.0	ft	0.0-1.0	ft	1.0-1.5 ft		1.5-2.0	ft
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL	,	SOIL	
	Sampled:	Jan-24-20	09:18	Jan-24-20	Jan-24-20 09:20		09:22	Jan-24-20 09:27		Jan-24-20 09:29		Jan-24-20	09:21
BTEX by EPA 8021B	Extracted:	Feb-02-20	11:30	Feb-02-20 11:30		Feb-02-20	11:30	Feb-02-20	11:30	Feb-02-20	11:30	Feb-02-20	11:30
	Analyzed:	Feb-03-20	08:30	Feb-03-20	10:04	Feb-03-20	10:25	Feb-03-20	10:45	Feb-03-20	11:05	Feb-03-20	11:25
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Toluene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Ethylbenzene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
m,p-Xylenes		< 0.00397	0.00397	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00403	0.00403	< 0.00398	0.00398	< 0.00399	0.00399
o-Xylene		< 0.00198	0.00198	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.00200	0.00200
Total Xylenes		< 0.00198	0.00198	< 0.002	0.002	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.002	0.002
Total BTEX		< 0.00198	0.00198	< 0.002	0.002	< 0.00199	0.00199	< 0.00202	0.00202	< 0.00199	0.00199	< 0.002	0.002
Chloride by EPA 300	Extracted:	Jan-29-20	16:42	Jan-29-20 16:42		Jan-29-20	16:42	Jan-29-20	16:42	Jan-29-20	16:42	Jan-29-20 16:42	
	Analyzed:	Jan-29-20	17:35	Jan-29-20	8:35	Jan-29-20	18:42	Jan-29-20	18:49	Jan-29-20	18:55	Jan-29-20	19:02
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL
Chloride		32.679	4.9702	37.792	5.0505	6.3700	4.9603	< 5.0000	5.0000	11.039	4.9900	< 5.0302	5.0302
TPH by SW8015 Mod	Extracted:	Jan-29-20	15:00	Jan-29-20	5:00	Jan-29-20	15:00	Jan-29-20	15:00	Jan-29-20	15:00	Jan-29-20	15:00
	Analyzed:	Jan-30-20	00:56	Jan-30-20 (1:17	Jan-30-20 (01:38	Jan-30-20	01:59	Jan-30-20	02:42	Jan-30-20	03:03
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.0	50.0	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<49.9	49.9	< 50.0	50.0
Diesel Range Organics (DRO)		< 50.0	50.0	< 50.0	50.0	<49.9	49.9	< 50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		< 50.0	50.0	<50.0	50.0	<49.9	49.9	< 50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50	50	<50	50	<49.9	49.9	< 50	50	<49.9	49.9	<50	50

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Jessica Kramer Project Assistant

Jessica Vermer



Certificate of Analysis Summary 650605

American Safety Services, Odessa, TX

Project Name: Maverick Natural Resources-Jalmat 235



Project Id: Contact:

Project Location:

Thomas Franklin

Lea Co.NM

Date Received in Lab: Wed Jan-29-20 09:14 am

Report Date: 04-FEB-20

Project Manager: Jessica Kramer

	Lab Id:	650605-013			
Analysis Requested	Field Id:	Auger Hole 5			
Analysis Requesieu	Depth:	0.0-1.0 ft			
	Matrix:	SOIL			
	Sampled:	Jan-24-20 09:36			
BTEX by EPA 8021B	Extracted:	Feb-02-20 11:30			
	Analyzed:	Feb-03-20 11:45			
	Units/RL:	mg/kg RL			
Benzene		< 0.00200 0.00200			
Toluene		< 0.00200 0.00200			
Ethylbenzene		< 0.00200 0.00200			
m,p-Xylenes		< 0.00400 0.00400			
Xylene		<0.00200 0.00200			
Total Xylenes		< 0.002 0.002			
Total BTEX		< 0.002 0.002			
Chloride by EPA 300	Extracted:	Jan-29-20 16:42			
	Analyzed:	Jan-29-20 19:09			
	Units/RL:	mg/L RL			
Chloride		<5.0100 5.0100			
TPH by SW8015 Mod	Extracted:	Jan-29-20 15:00			
	Analyzed:	Jan-30-20 03:25			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8			
Diesel Range Organics (DRO)		<49.8 49.8			
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8			
Total TPH		<49.8 49.8			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%

Jessica Kramer Project Assistant

Jessica Vermer

Analytical Report 650605

for

American Safety Services

Project Manager: Thomas Franklin

Maverick Natural Resources-Jalmat 235

04-FEB-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)





04-FEB-20

Project Manager: **Thomas Franklin American Safety Services**8715 Andrews Hwy
Odessa, TX 79765

Reference: XENCO Report No(s): 650605

Maverick Natural Resources-Jalmat 235

Project Address: Lea Co.NM

Thomas Franklin:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 650605. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 650605 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Vramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Sample Cross Reference 650605



American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Auger Hole 1	S	01-24-20 09:00	0.0 - 1.0 ft	650605-001
Auger Hole 1	S	01-24-20 09:02	1.0 - 1.5 ft	650605-002
Auger Hole 1	S	01-24-20 09:04	1.5 - 2.0 ft	650605-003
Auger Hole 2	S	01-24-20 09:09	0.0 - 1.0 ft	650605-004
Auger Hole 2	S	01-24-20 09:11	1.0 - 1.5 ft	650605-005
Auger Hole 2	S	01-24-20 09:13	1.5 - 2.0 ft	650605-006
Auger Hole 3	S	01-24-20 09:18	0.0 - 1.0 ft	650605-007
Auger Hole 3	S	01-24-20 09:20	1.0 - 1.5 ft	650605-008
Auger Hole 3	S	01-24-20 09:22	1.5 - 2.0 ft	650605-009
Auger Hole 4	S	01-24-20 09:27	0.0 - 1.0 ft	650605-010
Auger Hole 4	S	01-24-20 09:29	1.0 - 1.5 ft	650605-011
Auger Hole 4	S	01-24-20 09:21	1.5 - 2.0 ft	650605-012
Auger Hole 5	S	01-24-20 09:36	0.0 - 1.0 ft	650605-013



CASE NARRATIVE

Client Name: American Safety Services

Project Name: Maverick Natural Resources-Jalmat 235

Project ID: Report Date: 04-FEB-20 Work Order Number(s): 650605 Date Received: 01/29/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3115335 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7695757-1-BLK.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

01.29.20 16.20

Sample Id: **Auger Hole 1**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-001

Date Collected: 01.24.20 09.00

Sample Depth: 0.0 - 1.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

CHE

% Moisture:

Tech: Analyst:

CHE

Basis:

Wet Weight

Seq Number: 3114893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3713.8	24.802	mg/L	01.29.20 23.23		5

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Basis:

ARM Analyst:

01.29.20 15.00 Date Prep:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.29.20 22.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.29.20 22.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.29.20 22.08	U	1
Total TPH	PHC635	< 50	50		mg/kg	01.29.20 22.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	01.29.20 22.08		
o-Terphenyl		84-15-1	112	%	70-135	01.29.20 22.08		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 1** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-001

Date Collected: 01.24.20 09.00

Sample Depth: 0.0 - 1.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

02.02.20 11.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	02.03.20 06.29	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	02.03.20 06.29	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	02.03.20 06.29	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	02.03.20 06.29	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	02.03.20 06.29	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	02.03.20 06.29	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	02.03.20 06.29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	77	%	70-130	02.03.20 06.29		
1,4-Difluorobenzene		540-36-3	116	%	70-130	02.03.20 06.29		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 1**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-002

Date Collected: 01.24.20 09.02

Sample Depth: 1.0 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture: Basis:

Wet Weight

Analyst:

CHE

Date Prep: 01.29.20 16.20

Seq Number: 3114893

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3021.2	24.950	mg/L	01.29.20 23.30		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

01.29.20 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.29.20 23.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.29.20 23.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.29.20 23.12	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.29.20 23.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	107	%	70-135	01.29.20 23.12		
o-Terphenyl		84-15-1	108	%	70-135	01.29.20 23.12		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 1** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-002

Date Collected: 01.24.20 09.02

Sample Depth: 1.0 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

02.02.20 11.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.03.20 06.49	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.03.20 06.49	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.03.20 06.49	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	02.03.20 06.49	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.03.20 06.49	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	02.03.20 06.49	U	1
Total BTEX		< 0.002	0.002		mg/kg	02.03.20 06.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	115	%	70-130	02.03.20 06.49		
4-Bromofluorobenzene		460-00-4	78	%	70-130	02.03.20 06.49		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 1**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-003

Date Collected: 01.24.20 09.04

Sample Depth: 1.5 - 2.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

01.29.20 16.42 Date Prep:

Basis:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1689.9	24.950	mg/L	01.29.20 17.55		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

Date Prep:

01.29.20 15.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.29.20 23.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.29.20 23.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.29.20 23.33	U	1
Total TPH	PHC635	< 50	50		mg/kg	01.29.20 23.33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	01.29.20 23.33		
o-Terphenyl		84-15-1	108	%	70-135	01.29.20 23.33		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: Auger Hole 1

Matrix: Soil

Date Received:01.29.20 09.14

Lab Sample Id: 650605-003

Date Collected: 01.24.20 09.04

Sample Depth: 1.5 - 2.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst: KTL

Date Prep:

02.02.20 11.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	02.03.20 07.09	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	02.03.20 07.09	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	02.03.20 07.09	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	02.03.20 07.09	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	02.03.20 07.09	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	02.03.20 07.09	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	02.03.20 07.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	02.03.20 07.09		
4-Bromofluorobenzene		460-00-4	75	%	70-130	02.03.20 07.09		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: Auger Hole 2

Matrix: Soil

Date Received:01.29.20 09.14

Lab Sample Id: 650605-004

Date Collected: 01.24.20 09.09

Sample Depth: 0.0 - 1.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CI

CHE

01.29.20 16.42

Basis:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3288.7	25.202	mg/L	01.29.20 18.02		5

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep: 01.29.20 15.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.29.20 23.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.29.20 23.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.29.20 23.54	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.29.20 23.54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	01.29.20 23.54		
o-Terphenyl		84-15-1	113	%	70-135	01.29.20 23.54		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: Auger Hole 2

Matrix: Soil

Date Received:01.29.20 09.14

Lab Sample Id: 650605-004

Date Collected: 01.24.20 09.09

Sample Depth: 0.0 - 1.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

02.03.20 07.29

Tech:

Total BTEX

KTL

% Moisture:

Analyst: KTL

Seq Number: 3115335

Date Prep:

02.02.20 11.30 Basis:

mg/kg

Wet Weight

U

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202	mg/kg	02.03.20 07.29	U	1
Toluene	108-88-3	< 0.00202	0.00202	mg/kg	02.03.20 07.29	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202	mg/kg	02.03.20 07.29	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403	mg/kg	02.03.20 07.29	U	1
o-Xylene	95-47-6	< 0.00202	0.00202	mg/kg	02.03.20 07.29	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202	mg/kg	02.03.20 07.29	U	1

0.00202

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	74	%	70-130	02.03.20 07.29	
1,4-Difluorobenzene	540-36-3	114	%	70-130	02.03.20 07.29	

< 0.00202





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 2**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-005

Date Collected: 01.24.20 09.11

Sample Depth: 1.0 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE CHE

% Moisture:

Analyst:

Date Prep:

Basis:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2380.7	25.050	mg/L	01.29.20 18.09		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

Date Prep:

01.29.20 15.00

01.29.20 16.42

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.30.20 00.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.30.20 00.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.30.20 00.15	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.30.20 00.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	01.30.20 00.15		
o-Terphenyl		84-15-1	112	%	70-135	01.30.20 00.15		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 2** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-005

Date Collected: 01.24.20 09.11

Sample Depth: 1.0 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Wet Weight

Analyst:

KTL

Date Prep:

02.02.20 11.30

Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.03.20 07.50	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.03.20 07.50	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.03.20 07.50	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	02.03.20 07.50	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.03.20 07.50	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	02.03.20 07.50	U	1
Total BTEX		< 0.002	0.002		mg/kg	02.03.20 07.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	72	%	70-130	02.03.20 07.50		
1,4-Difluorobenzene		540-36-3	113	%	70-130	02.03.20 07.50		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 2**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-006

Date Collected: 01.24.20 09.13

Sample Depth: 1.5 - 2.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: CHE

CHE

% Moisture:

Basis:

Seq Number: 3114871

01.29.20 16.42 Date Prep:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1807.2	25.253	mg/L	01.29.20 18.15		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

Date Prep:

01.29.20 15.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.30.20 00.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.30.20 00.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.30.20 00.35	U	1
Total TPH	PHC635	< 50	50		mg/kg	01.30.20 00.35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	01.30.20 00.35		
o-Terphenyl		84-15-1	112	%	70-135	01.30.20 00.35		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: Auger Hole 2

Matrix: Soil

Date Received:01.29.20 09.14

Lab Sample Id: 650605-006

Date Collected: 01.24.20 09.13

Sample Depth: 1.5 - 2.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Basis:

Analyst: KTL

Date Prep:

02.02.20 11.30

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.03.20 08.10	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.03.20 08.10	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.03.20 08.10	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	02.03.20 08.10	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.03.20 08.10	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	02.03.20 08.10	U	1
Total BTEX		< 0.002	0.002		mg/kg	02.03.20 08.10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	74	%	70-130	02.03.20 08.10		
1,4-Difluorobenzene		540-36-3	114	%	70-130	02.03.20 08.10		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 3**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-007

Date Collected: 01.24.20 09.18

Sample Depth: 0.0 - 1.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: Analyst: CHE CHE

Date Prep:

01.29.20 16.42

Basis:

% Moisture:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.679	4.9702	mg/L	01.29.20 17.35		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

01.29.20 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.30.20 00.56	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.30.20 00.56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.30.20 00.56	U	1
Total TPH	PHC635	< 50	50		mg/kg	01.30.20 00.56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	110	%	70-135	01.30.20 00.56		
o-Terphenyl		84-15-1	112	%	70-135	01.30.20 00.56		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: Auger Hole 3

Matrix: Soil

Date Received:01.29.20 09.14

Lab Sample Id: 650605-007

Date Collected: 01.24.20 09.18

Sample Depth: 0.0 - 1.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst: KT

Seq Number: 3115335

KTL

Date Prep: 02.02.20 11.30

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198	mg/kg	02.03.20 08.30	U	1
Toluene	108-88-3	< 0.00198	0.00198	mg/kg	02.03.20 08.30	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	mg/kg	02.03.20 08.30	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397	mg/kg	02.03.20 08.30	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	mg/kg	02.03.20 08.30	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198	mg/kg	02.03.20 08.30	U	1
Total BTEX		< 0.00198	0.00198	mg/kg	02.03.20 08.30	U	1
			0/.				

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	02.03.20 08.30	
4-Bromofluorobenzene	460-00-4	72	%	70-130	02.03.20 08.30	





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 3**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-008

Date Collected: 01.24.20 09.20

Sample Depth: 1.0 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

Date Prep:

% Moisture:

Analyst:

CHE

01.29.20 16.42

Basis:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.792	5.0505	mg/L	01.29.20 18.35		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: Analyst: DVM ARM

% Moisture:

01.29.20 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.30.20 01.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.30.20 01.17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.30.20 01.17	U	1
Total TPH	PHC635	< 50	50		mg/kg	01.30.20 01.17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	01.30.20 01.17		
o-Terphenyl		84-15-1	115	%	70-135	01.30.20 01.17		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 3** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-008

Date Collected: 01.24.20 09.20

Sample Depth: 1.0 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Basis:

KTL Analyst:

Date Prep:

02.02.20 11.30

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.03.20 10.04	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.03.20 10.04	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.03.20 10.04	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	02.03.20 10.04	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.03.20 10.04	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	02.03.20 10.04	U	1
Total BTEX		< 0.002	0.002		mg/kg	02.03.20 10.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	70	%	70-130	02.03.20 10.04		
1,4-Difluorobenzene		540-36-3	113	%	70-130	02.03.20 10.04		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 3**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-009

Date Collected: 01.24.20 09.22

Sample Depth: 1.5 - 2.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE % Moisture:

Analyst:

CHE

01.29.20 16.42 Date Prep:

Basis:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.3700	4.9603	mg/L	01.29.20 18.42		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

01.29.20 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.30.20 01.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.30.20 01.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.30.20 01.38	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.30.20 01.38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	01.30.20 01.38		
o-Terphenyl		84-15-1	112	%	70-135	01.30.20 01.38		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 3** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-009

Date Collected: 01.24.20 09.22

Sample Depth: 1.5 - 2.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

02.02.20 11.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.03.20 10.25	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.03.20 10.25	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.03.20 10.25	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.03.20 10.25	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.03.20 10.25	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	02.03.20 10.25	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.03.20 10.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	75	%	70-130	02.03.20 10.25		
1,4-Difluorobenzene		540-36-3	115	%	70-130	02.03.20 10.25		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 4** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-010

Date Collected: 01.24.20 09.27

Sample Depth: 0.0 - 1.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE

Date Prep: 01.29.20 16.42

Basis:

Wet Weight

Analyst:

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.0000	5.0000	mg/L	01.29.20 18.49	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

01.29.20 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.30.20 01.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.30.20 01.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.30.20 01.59	U	1
Total TPH	PHC635	< 50	50		mg/kg	01.30.20 01.59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	01.30.20 01.59		
o-Terphenyl		84-15-1	114	%	70-135	01.30.20 01.59		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Soil

Sample Id: Auger Hole 4

Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-010

Date Collected: 01.24.20 09.27

Sample Depth: 0.0 - 1.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Basis:

Analyst: KTL

Date Prep:

02.02.20 11.30

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.03.20 10.45	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.03.20 10.45	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.03.20 10.45	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	02.03.20 10.45	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.03.20 10.45	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.03.20 10.45	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.03.20 10.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	75	%	70-130	02.03.20 10.45		
1,4-Difluorobenzene		540-36-3	117	%	70-130	02.03.20 10.45		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 4**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-011

Date Collected: 01.24.20 09.29

Sample Depth: 1.0 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

01.29.20 16.42

Basis:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.039	4.9900	mg/L	01.29.20 18.55		1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

Date Prep:

01.29.20 15.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	01.30.20 02.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	01.30.20 02.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	01.30.20 02.42	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	01.30.20 02.42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	01.30.20 02.42		
o-Terphenyl		84-15-1	110	%	70-135	01.30.20 02.42		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 4** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-011

Date Collected: 01.24.20 09.29

Sample Depth: 1.0 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: Analyst: KTL

% Moisture:

KTL

02.02.20 11.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.03.20 11.05	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.03.20 11.05	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.03.20 11.05	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.03.20 11.05	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.03.20 11.05	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	02.03.20 11.05	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.03.20 11.05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	119	%	70-130	02.03.20 11.05		
4-Bromofluorobenzene		460-00-4	83	%	70-130	02.03.20 11.05		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

01.29.20 16.42

Sample Id: **Auger Hole 4**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-012

Date Collected: 01.24.20 09.21

Sample Depth: 1.5 - 2.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst:

CHE

Date Prep:

Basis:

Wet Weight

Seq Number: 3114871

Parameter	Cas Number	Result	RL	Un	nits	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.0302	5.0302	mg	g/L	01.29.20 19.02	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

01.29.20 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	01.30.20 03.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	01.30.20 03.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	01.30.20 03.03	U	1
Total TPH	PHC635	< 50	50		mg/kg	01.30.20 03.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	01.30.20 03.03		
o-Terphenyl		84-15-1	107	%	70-135	01.30.20 03.03		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 4** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-012

Date Collected: 01.24.20 09.21

Sample Depth: 1.5 - 2.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

Analyst:

KTL

% Moisture:

KTL

02.02.20 11.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.03.20 11.25	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.03.20 11.25	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.03.20 11.25	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	02.03.20 11.25	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.03.20 11.25	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	02.03.20 11.25	U	1
Total BTEX		< 0.002	0.002		mg/kg	02.03.20 11.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	02.03.20 11.25		
4-Bromofluorobenzene		460-00-4	76	%	70-130	02.03.20 11.25		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 5**

Soil Matrix:

Date Received:01.29.20 09.14

Lab Sample Id: 650605-013

Date Collected: 01.24.20 09.36

Sample Depth: 0.0 - 1.0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Wet Weight

Tech:

CHE

CHE Analyst: Seq Number: 3114871 Date Prep:

01.29.20 16.42

Basis:

Parameter	Cas Number	Result	RL	Unit	S Analysis Date	Flag	Dil
Chloride	16887-00-6	< 5.0100	5.0100	mg/I	01.29.20 19.09	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst:

ARM

01.29.20 15.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	01.30.20 03.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	01.30.20 03.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	01.30.20 03.25	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	01.30.20 03.25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	110	%	70-135	01.30.20 03.25		
o-Terphenyl		84-15-1	108	%	70-135	01.30.20 03.25		





American Safety Services, Odessa, TX

Maverick Natural Resources-Jalmat 235

Sample Id: **Auger Hole 5** Matrix: Soil Date Received:01.29.20 09.14

Lab Sample Id: 650605-013

Date Collected: 01.24.20 09.36

Sample Depth: 0.0 - 1.0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

KTL

% Moisture:

Analyst:

KTL

02.02.20 11.30 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.03.20 11.45	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.03.20 11.45	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.03.20 11.45	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	02.03.20 11.45	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.03.20 11.45	U	1
Total Xylenes	1330-20-7	< 0.002	0.002		mg/kg	02.03.20 11.45	U	1
Total BTEX		< 0.002	0.002		mg/kg	02.03.20 11.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	118	%	70-130	02.03.20 11.45		
4-Bromofluorobenzene		460-00-4	75	%	70-130	02.03.20 11.45		



Flagging Criteria



Page 52 of 68

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.



QC Summary 650605

American Safety Services

Maverick Natural Resources-Jalmat 235

Analytical Method: Chloride by EPA 300

Seq Number: 3114893

MB Sample Id: 7695519-1-BLK

Matrix: Solid

7695519-1-BKS

E300P Prep Method:

> Date Prep: 01.29.20

LCS Sample Id: LCSD Sample Id: 7695519-1-BSD

LCS Spike LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis **Parameter** Result Result %Rec Date Amount %Rec Result < 0.858340

Chloride mg/L 01.29.20 20:17 250.00 268.47 107 268.32 107 90-110 0 20

Analytical Method: Chloride by EPA 300

Seq Number:

3114871

Matrix: Solid

Prep Method:

E300P

Date Prep:

01.29.20

MB Sample Id:

7695490-1-BLK

7695490-1-BKS LCS Sample Id:

LCSD Sample Id: 7695490-1-BSD

Parameter

MB

MR

Spike Result

LCS LCS %Rec LCSD LCSD %Rec

Limits

%RPD RPD Limit Units

Flag

Flag

Chloride

Result Amount < 0.858340 250.00

256.25

103

Result 254.34

90-110

90-110

20 mg/L Analysis Date

01.29.20 17:22

Analytical Method: Chloride by EPA 300

Seq Number:

3114893

Matrix: Soil

108

Prep Method: Date Prep: E300P

01.29.20

Parent Sample Id:

650476-029

MS Sample Id:

650476-029 S

MSD Sample Id: 650476-029 SD

20

01.29.20 20:37

Parameter

Spike Amount

249.00

MS MS Result %Rec

399.76

MSD Result 397.50

MSD Limits %Rec 108

102

%RPD RPD Limit Units

Analysis Flag Date

Chloride

Parent

Result

129.80

Analytical Method: Chloride by EPA 300 Seq Number:

3114893

Prep Method:

E300P 01.29.20

mg/L

Parent Sample Id:

650551-003

Matrix: Soil MS Sample Id:

110

Date Prep:

650551-003 SD

Parameter

Parent

Spike

MS Result

650551-003 S **MSD**

MSD Limits

110

104

MSD Sample Id:

20

Analysis

01.29.20 22:10

Chloride

Result 11.885 Amount 287.09 251.00

MS %Rec Result 287.17

%Rec

90-110

%RPD RPD Limit Units

Date

Flag

Analytical Method: Chloride by EPA 300

Result

32.679

0

0

E300P

Seq Number: Parent Sample Id: 3114871

Matrix: Soil

MS Sample Id: 650605-007 S

Prep Method: Date Prep: 01.29.20

mg/L

mg/L

MSD Sample Id: 650605-007 SD

01.29.20 17:42

Parameter

Chloride

650605-007 Parent

Spike Amount

248.51

MS Result

292 74

MS %Rec 105

MSD MSD Result %Rec 291.43

Limits 90-110

%RPD RPD Limit Units

20

Analysis Flag Date

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

Flag



QC Summary 650605

American Safety Services

Maverick Natural Resources-Jalmat 235

Analytical Method: Chloride by EPA 300

Seq Number:

3114871

Parent Sample Id: 650605-013

Matrix: Soil MS Sample Id: 650605-013 S

E300P Prep Method:

Date Prep: 01.29.20

MSD Sample Id: 650605-013 SD

Spike MS MS Limits %RPD RPD Limit Units Parent **MSD MSD** Analysis Flag **Parameter** Result Result Date Amount %Rec %Rec Result 01.29.20 19:15 Chloride 3.0711 250.50 272.49 108 272.59 108 90-110 0 20 mg/L

Analytical Method: TPH by SW8015 Mod

Seq Number: 3114959

MB Sample Id:

7695497-1-BLK

Matrix: Solid

LCS Sample Id: 7695497-1-BKS

SW8015P Prep Method:

> 01.29.20 Date Prep:

LCSD Sample Id: 7695497-1-BSD

Spike LCS LCS %RPD RPD Limit Units MB LCSD LCSD Limits Analysis **Parameter** Result %Rec Date Result Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 1000 930 93 976 98 70-135 5 20 mg/kg 01.29.20 21:27 <15.0 Diesel Range Organics (DRO) 1000 936 94 950 95 70-135 20 01.29.20 21:27 <15.0 1 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units Analysis Surrogate %Rec Flag %Rec Flag %Rec Flag Date 01.29.20 21:27 1-Chlorooctane 116 111 114 70-135 % 70-135 01.29.20 21:27 o-Terphenyl 114 99 113 %

Analytical Method: TPH by SW8015 Mod

Seq Number:

3114959

Matrix: Solid

MB Sample Id: 7695497-1-BLK

Prep Method: SW8015P

Date Prep: 01.29.20

MB Units **Parameter**

Result Motor Oil Range Hydrocarbons (MRO)

< 50.0

Date 01.29.20 21:06 mg/kg

Analysis

Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number:

3114959

Matrix: Soil

SW8015P

Date Prep: 01.29.20

MS Sample Id: 650605-001 S MSD Sample Id: 650605-001 SD Parent Sample Id: 650605-001

%RPD RPD Limit Units MS Limits Parent Spike MS **MSD MSD** Analysis **Parameter** Result Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 01.29.20 22:29 24.3 997 979 96 973 95 70-135 1 20 mg/kg 70-135 01.29.20 22:29 Diesel Range Organics (DRO) 19.4 997 955 94 934 92 2 20 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag Flag Date %Rec 01.29.20 22:29 1-Chlorooctane 115 126 70-135 % o-Terphenyl 110 109 70-135 % 01.29.20 22:29

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

= MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



QC Summary 650605

American Safety Services

Maverick Natural Resources-Jalmat 235

Analytical Method: BTEX by EPA 8021B

Seq Number: 3115335

Prep Method:

SW5030B

Date Prep: 02.02.20

LCSD Sample Id: 7695757-1-BSD

MB Sample Id:	7695757-1-BLK		LCS Sar	nple Id:	7695757-	1-BKS	LCSD Sample Id: 7695757-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.000385	0.100	0.112	112	0.0920	92	70-130	20	35	mg/kg	02.03.20 03:09	
Toluene	< 0.000456	0.100	0.106	106	0.0910	91	70-130	15	35	mg/kg	02.03.20 03:09	
Ethylbenzene	< 0.000565	0.100	0.101	101	0.0867	87	70-130	15	35	mg/kg	02.03.20 03:09	
m,p-Xylenes	< 0.00101	0.200	0.196	98	0.170	85	70-130	14	35	mg/kg	02.03.20 03:09	
o-Xylene	< 0.000344	0.100	0.101	101	0.0873	87	70-130	15	35	mg/kg	02.03.20 03:09	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec		_	Limits	Units	Analysis Date	
1,4-Difluorobenzene	108		1	14		109		7	0-130	%	02.03.20 03:09	
4-Bromofluorobenzen	e 68	**	g	90		86		7	0-130	%	02.03.20 03:09	

Matrix: Solid

Analytical Method: BTEX by EPA 8021B

Seq Number: Parent Sample Id:

o-Xylene

3115335

650475-002

< 0.000344

Matrix: Soil MS Sample Id: 650475-002 S

0.100

0.0523

Prep Method:

35

SW5030B

X

Date Prep: 02.02.20

mg/kg

MSD Sample Id: 650475-002 SD

Spike MS %RPD RPD Limit Units MS Limits Analysis **Parent MSD** MSD **Parameter** Flag Result Amount Result %Rec Date Result %Rec 02.03.20 03:50 77 70-130 18 Benzene 0.0005130.1000.07750.0926 92 35 mg/kg Toluene 0.000805 0.100 0.0696 69 0.0848 84 70-130 20 35 02.03.20 03:50 X mg/kg < 0.000565 02.03.20 03:50 Ethylbenzene 0.100 0.0564 56 0.0670 67 70-130 17 35 X mg/kg 02.03.20 03:50 m,p-Xylenes < 0.00101 0.200 0.109 55 0.128 70-130 35 X 64 16 mg/kg 02.03.20 03:50

0.0646

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	02.03.20 03:50
4-Bromofluorobenzene	96		84		70-130	%	02.03.20 03:50

52

70-130

21

65

CHAIN OF CUSTODY

Company Name / Branch:
American Safety Services Inc.
Company Address:
8715 Andrews Hwy
Odessa Tx 79765 Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300) Setting the Standard since 1990 Client / Reporting Information Phone No: 432-557-9868 432-557-6195 Project Name/Number:
Maverick Natural Resources-Jalmat 235
Project Location: San Antonio, Texas (210-509-3334) Midland, Texas (432-704-5251) Invoice To: Project Information Lea Co. NM www.xenco.com Phoenix, Arizona (480-355-0900) Analytical Information Xenco Job # P = Product SW = Surface water SL = Sludge OW =Ocean/Sea Water WI = Wipe W = Water S = Soil/Sed/Solid DW = Drinking Water GW =Ground Water Matrix Codes

5 Helin	3	Helin			_				s		1 0	9	00	7	6	σı	4	ω	2		N _o .		Samplers's Name	Project Contact:	tfranklin mdial@
Helinquished by: Date Time: Received By: Custody Seal # Preserved where applicable On/Ce Cooler Temp. Thermo. Corr. Factor		Relinquished by: (Helinguished by Sampler:	7	TAT Starts Day received by Lab, if received by 5:00 pm	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaround Time (Business days)	Auger Hole	Auger Hole	Auger Hole	Auger Hole 3	Auger Hole 2	Auger Hole	Field ID / Point of Collection		Samplers's Name	ontact: Franklin	lfranklin@americansafety.net mdial@americansafety.net				
				SAMPLE CUSTODY MUST BE DOCUMENTED	Lab, if received by 5:0		Contract TAT	□7 Рау ТАТ	X 5 Day TAT	/s)	ile 4	ile 3	de 3	ile 3	ile 2	ile 2	ile 2	ile 1	ble 1	ile 1	Callection				432-557-9868 432-557-6195
Date Time:	-	Date Time:		Y MUST BE	0 pm						0.0-1.0	1.5-2.0	1.0-1.5	0.0-1.0	1.5-2.0	1.0-1.5	0.0-1.0	1.5-2.0	1.0-1.5	0.0-1.0	Sample Depth				
×		3	8	DOCUMENT							1/24/2020	1/24/2020	1/24/2020	1/24/2020	1/24/2020	1/24/2020	1/24/2020	1/24/2020	1/24/2020	1/24/2020	Date	Collection	PO Number:		
Received By:	ω	Received By	The delive	And last da	Ś						0927	0922	0920	0918	0913	0911	0909	0904	0902	1	Time	3			
d By:		d By	- D	K,		TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	-	S	S	S	s	S	s	s	s	s	S	Matrix	J			
			X	H TIME SAMPLES CHANGE POSSESSION, INCLUDING COUR	>	klist	P Forms	d QC+ Fo	ຄ	Data Deliverable Information	_	_	_	_	1		1	1	_	_	# of bottles	************		Bill ASS	
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		Ì		E POSS			П	П	П	ormation											Acetate HNO3	Number of preserved bottles		nomas F	
Custo	4	Relina	Reling 2	ESSION,] ust/	TRRF	Level												H2SO4	preser		ranklin	
Custody Seal #	4	ished	Relinquished By:	INCLUD			UST / RG -411	TRRP Level IV	Level IV (Full Data Pi				-								NaOH NaHSO4	ved bo			
#	į	P	By:	NG COL				<	Data F												меон	iles			
				IRIER DI					kg /raw data)		×	×	×	×	×	×	×	×	×	×	NONE Chloride	300)	<u> </u>	
Pre				IER DELIVERY					v data)		×	×	×	×	×	×	×	×	×	×	TPH 80				
Preserved where applicable	500	7	Date								×	×	×	×	$\overline{\times}$	×	×	×	×	×	BTEX 8	021			
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applic					FED-E																				
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	neceived by:		Received By: 2		S: Tra									_	_	_	_	_	_						
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Cooler Temp.																									
> 취																					<u> Б</u>				
																					Field Comments	A = Air	0 = 0il	WI = Wipe	ST = 8
10. Con																					ments	1	O = Oil WW= Waste Water	Vipe	SL = Sludge
Thermo. Corr. Factor																							Water	: 2	SL = Sludge
٦																								Š	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Relipquished by Say

elinquished by:

3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

SAMPLE CUSTOD

V MUST BE DOCUMENT

SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY
Relinquished By:

FED-EX / UPS: Tracking #

TRRP Checklist

Level 3 (CLP Forms)

UST / RG -411 TRRP Level IV

Level III Std QC+ Forms

Level II Std QC

Level IV (Full Data Pkg /raw data)

Notes:

Data Deliverable Information

2 Day EMERGENCY Next Day EMERGENCY

X Contract TAT 7 Day TAT 5 Day TAT

Relinquished by:

Date Time:

Received By:

Custody Seal #

Preserved where applicable

On ice

Coole

Corr. Factor

Relinquished By:

Date Time: Date Time:

Received By: Received By:

Date Time:

5 9 œ 7 6 տ

Same Day TAT

Turnaround Time (Business days)

ĕ

Field ID / Point of Collection

4

Auger Hole 5 Auger Hole 4 Auger Hole 4

0.0-1.0 1.5-2.0 1.0-1.5 Sample Depth

1/24/2020 1/24/2020

0936 0931 0929

S ഗ ഗ

× ×

× × ×

× × 1/24/2020

Date

Time

Matrix

ICI NaOH/Zn cetate INO3

NaOH NaHSO4 **MEOH** IONE

Chloride 300

TPH 8015

BTEX 8021

Hold

Field Comments

×

Thomas Franklin

oject Contact:

Odessa Tx 79765

franklin@americansafety.net

lial@americansafety.net

432-557-9868 432-557-6195 Phone No:

Lea Co. NM

PO Number

Bill ASSI Attn Thomas Franklin

Samplers's Name

Setting the Standard since 1990

CHAIN OF CUSTODY

Company Address: 8715 Andrews Hwy Company Name / Branch: American Safety Services Inc. Stafford, Texas (281-240-4200) Dallas Texas (214-902-0300) Client / Reporting Information Maverick Natural Resources-Jalmat 235
Project Location: Midland, Texas (432-704-5251) San Antonio, Texas (210-509-3334) Project Name/Number: Project Information www.xenco.com Phoenix, Arizona (480-355-0900) Analytical Information Xenco Job # DW = Drinking Water S = Soil/Sed/Solid W = Water GW =Ground Water Matrix Codes

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors, it assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any be enforced unless previously negotiated under a fully executed client contract.

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Final 1.000

SL = Sludge SW = Surface water P = Product

WI = Wipe OW =Ocean/Sea Water

WW= Waste Water A = Air 0=0

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: American Safety Services

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 01.29.2020 09.14.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 650605

Temperature Measuring device used: R8

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1.6	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?		N/A	
#6*Custody Seals Signed and dated?		N/A	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated t	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headspa	ace?	N/A	

' Must be completed for	after-hours deliver	y of samples	prior to placii	ng in the refrigerator

Anal	lyst:

PH Device/Lot#:

Checklist completed by:

Date: 01.29.2020

Checklist reviewed by: Jessica Vramer

Date: 01.30.2020



APPENDIX E

Initial C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

			Res	ponsi	ble Party	y		
Responsible Party Breitburn Operating, LP (Maverick Natural Resources, LLC)					OGRID 37	0080		
Contact Name Thomas Haigood					Contact Telephone (432) 701-7802			
Contact ema	il: Thomas.h	naigood@mavreso	urces.com		Incident # ((assigned by OCD)		
Contact mail	ing address	PO Box 678 Andr	ews, TX					
Location of Release Source								
Latitude 32.41055 Longitude -103.33083 (NAD 83 in decimal degrees to 5 decimal places)								
Site Name: Ja	ılmat Field Y	ates sand Unit No.	235		Site Type:	Production		
Date Release Discovered: 6/28/19					API# (if appl	licable) 30-025-38928		
Unit Letter	Section	tion Township Range Co			Coun	ty		
Α	11	225	35E	Lea				
Surface Owner: X State Federal Tribal Private (Name: Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)								
Crude Oil		Volume Release	d (bbls)			Volume Recovered (bbls)		
Produced	Water	Volume Release	d (bbls)15			Volume Recovered (bbls)		
			tion of total dissolventer > 10,000 mg.		ds (TDS)	Yes No		
Condensa	ite	Volume Release	d (bbls)			Volume Recovered (bbls)		
Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)		
Other (describe) Water from P&A Wellbore Volume/Weight Released (provide units) un Was advised as of 2 pm 11/9/2018 leak has flowing					as stopped	Volume/Weight Recovered (provide units) 100 bbl water trucked from emergency containment to disposal		
Cause of Release: 9:00 A.M. Lease Operator arrives on location to discover that fluid was spraying from a 2" injection line valve, that bad been inadvertently opened. A bull was moving away from the line as the operator was pulling up and it appears that the bull had contacted the valve and opened it. Apparently, the valve had no plug in it, therefore approximately 15 bbls of produced water sprayed over an area of 150' by 150'. The operator immediately shut in the valve. The overspray impacted the pasture area off the pad, but not waterway was impacted								

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Received by OCD: 2/28/2020 8:06:32 AM Form C-141 State of New Mexico Page 2

Oil Conservation Division

	1 480 01 0
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?				
☐ Yes ☒No						
If YES, was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?				
	Immediate notice was provided via email t	o Dylan Rose-Coss 6/28/19 at 12:17 PM				
	Initial Ro	esponse				
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury				
The impacted area ha Released materials ha All free liquids and re	ease has been stopped. Is been secured to protect human health and to the been contained via the use of berms or discoverable materials have been removed and above have not been undertaken, explain we have not been undertaken.	ikes, absorbent pads, or other containment devices. managed appropriately.				
has begun, please attach	Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Thomas I	Haigood	Title: Permian HSE Specialist				
Signature:	16/	Date: <u>6/28/2019</u>				
email: Thomas.haigood@	mavresources.com	Telephone: (432)523-1807				

Received by OCD: 2/28/2020 8:06:32 AM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 62 of 68
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	207 (ft bgs)					
Did this release impact groundwater or surface water?	Yes X No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐Yes 🕱 No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes k No					
Are the lateral extents of the release within 300 feet of a wetland?	Yes No					
Are the lateral extents of the release overlying a subsurface mine?						
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No					
Are the lateral extents of the release within a 100-year floodplain?	Yes X No					
Did the release impact areas not on an exploration, development, production, or storage site?						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody						

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

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Incident ID	
District RP	
Facility ID	
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Thorabas Haigood Title: Permian HSE Specialist

Date: 06/28/2019

email: Thomas.haigood@mavresources.com

Telephone: (432) 701-7802

OCD Only

Received by: Date: ______

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Incident ID	
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Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)				
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Thomas Hairood Title: Permian HSE Specialist				
Signature: Date: <u>06/28/2019</u>				
email: Thomas.haigood@mavresources.com Telephone: (432) 701-7802				
OCD Only				
Received by: Date:				
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved				
Signature: Date:				

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Page 6 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	mediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in
Printed Name: Thomas Haigood	Title: Permian HSE Specialist
Signature:	Date: <u>05/09/2019</u>
email: Thomas.hagood@maverickresources.com	Telephone: (432)701-7802
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



APPENDIX F

Groundwater Data



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:		
	Groundwater ▼	New Mexico	▼	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

322238103225201

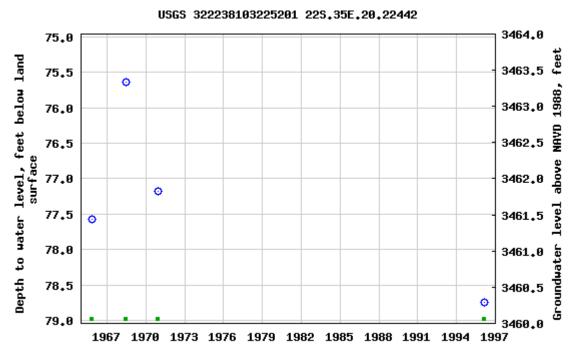
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322238103225201 22S.35E.20.22442

Available data for this site	Groundwater:	Field measurements	▼ GO	
Lea County, New Mexico				
Hydrologic Unit Code 1307	0007			
Latitude 32°22'38", Longi	tude 103°2	2'52" NAD27		
Land-surface elevation 3,5	39 feet abo	ve NAVD88		
This well is completed in the	ne Ogallala	Formation (1210	GLL) local a	aquifer.
•	-		=	-

Table of data Tab-separated data Graph of data Reselect period



Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

Plug-Ins

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer

Page Last Modified: 2020-02-13 15:15:49 EST

3.34 0.53 nadww02

