Breitburn Operating, LP AKA Maverick Natural Resources LLC State 647 AC 721 Tank Battery

Closure Report

Section 33, Township 18S, Range 28E Eddy County, New Mexico

2RP-4238

February 26, 2020



Prepared for:

Maverick Resources PO Box 678 Andrews, TX

By:

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

•

TABLE OF CONTENTS

I.	CONTACTS1	
II.	BACKGROUND	.1
III.	SURFACE AND GROUND WATER	.1
IV	WORK PERFORMED	.2
V.	CONCLUSION	3

VII. FIGURES & APPENDICES	3
Figure 1 – Site Map	
Appendix A – Site Photographs	
Appendix B – C-141	
Appendix C – Analytical Data	

I. Company Contacts

Representative	Company	Telephone	E-mail
Thomas Haigood	Maverick Resources	432-701-7802	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 area on the Breitburn State 647 AC 721 Tank Battery. This location is situated in Section 33, Township 18S, Range 28E in Eddy County New Mexico.

According the C-141 as it was filed with NMOCD: approximately One Hundred Fifty (150) barrels of oil and produced water were released due to internal corrosion in the bottom of tank #731. Most of the fluid was contained inside the lined containment. A vac truck was dispatched by Maverick personnel. Approximately Ninety (90) barrels of fluid were recovered from within the containment. Approximately 2 bbls of fluid leached over the berm, traversing the pad and lease road area. SESI was contacted to assess and remediate the site. A Trimble Juno 3B was used to map the spill and excavation area. The mapped spill area encompassed approximately 134 square yards of pad and lease road area.

III. Surface and Ground Water

According to research of the website for the New Mexico Office of the State Engineer records; there is no record of groundwater in the immediate vicinity of the site location. However, further research indicates the average depth to water to be 300' bgs. for Township 18S and Range 28E.

IV. Work Performed

On August 30, 2019 NMOCD personnel denied the proposed work plan based on TPH levels that were above the delineation guidelines for TPH. SESI requested permission to continue with remediation efforts, delineating the soil simultaneously during excavation and removal of impacted soils. Mr. Hamlet requested that the laboratory analyses confirming soil remediation levels for TPH be no higher than 2,500 mg/kg and be documented in the Closure Report.

On September 25, 2019 SESI personnel are onsite together with personnel and equipment from Custom Welding of Hobbs, NM. The SESI Field technician traversed the site assessing the release area with the equipment operator. The release area on the east side of the containment is excavated, a soil sample grabbed, and field tested for TPH. At 1ft. bgs. heavy hydrocarbon staining is encountered. The equipment operator is instructed to advance to 2 ft. bgs until the stained soil is removed. There were two (2) DCP pipelines that ran through the location along the edge of the release area. A Hydro-vac is utilized to daylight the pipeline area. The equipment continues to excavate the impacted area, while the field technician is simultaneously field testing the bottom and sidewalls of the excavation.

By permission of the current operator, the field technician sampled and delineated the release point (SP12 Release Point @3' bgs), located inside the lined containment, by hand auguring thru the liner. All confirmation samples are properly packaged, preserved, and transport via chain of custody to Hall Laboratories for analyses of Chlorides (CL EPA Method 300.0 ANIONS), Total Petroleum Hydrocarbons (DRO, GRO, MRO EPA Method 8015 M/D), as well as Benzene, Toluene, Ethylbenzene, and Xylenes (EPA Method 8021B). The results are tabulated below for ease of reference (Appendix C).

Breitburn State 647-721 Battery Soil Sample Results: Hall Environmental Analysis 09-27-19									
Sample ID	Chlorides	DRO	MRO	GRO	BTEX				
SP1 @2'	3900	36	69	ND	ND				
Bottom									
SP2 @2'	3100	36	75	ND	ND				
Bottom									
SP3 @2'	190	14	64	ND	ND				
Bottom									
SP4 @1.5'	97	18	82	ND	ND				
Bottom									
SP5 South Wall	180	12	60	ND	ND				
SP6 South Wall	270	11	53	ND	ND				
SP7 South Wall	700	ND	ND	ND	ND				
SP8 North Wall	280	9.7	52	ND	ND				
SP9 North Wall	560	9.7	49	ND	ND				
SP10 West	620	9.9	49	ND	ND				
Wall									
SP11 East Wall	160	15	60	ND	ND				
SP12 Release	370	230	280	ND	ND				
Point @ 3'									

VI. Conclusions

The spill area was excavated and remediated pursuant to NM Spill Rule 19.15.29 NMAC. Approximately 213 cubic yards of impacted soil was transported to Lea Landfill Disposal, an NMOCD approved facility for disposal (Appendix D). According to the disposal manifests a total of 1,540 yards of impacted soil were disposed of. The release point occurred inside the lined containment, which is a fully operational facility. The release point was delineated to 3', whereby the chlorides and total petroleum hydrocarbons were below the RL's. SESI requests a deferral of remediation for the interior of the battery, until such a point in time that the Battery is decommissioned. Fresh caliche was transported in for backfill material of the excavated pad and lease road area. The pad area and lease road were returned to grade. All remediation efforts were conducted and finalized with the approval of the current operator.

SESI, on behalf of Maverick Resources respectfully submits this closure report with a deferral request for the interior of the bermed area, for your consideration and conclusion of the associated remediation permit.

VII. Figures & Appendices

Figure 1 – Site Plan Appendix A – Site Photographs Appendix B – C-141 Appendix C – Analytical

Closure Report	
February 26. 2020	

Maverick Resources Eddy County, New Mexico

Figure 1 Site Map

•



Page 8 of 27

Appendix A Site Photographs

Completion Maverick Resources State 647-721 Battery





Received by OCD: 2/26/2020 1:09:48 PM



Excavation









Lease Road Area



Release Point

Completion











Appendix B C-141

Received by OCD: 2/26/2020 1:09:48 PM Form C-141 State of New Mexico

Page 5

Oil Conservation Division

Incident ID	
District RP	2RP-4238
Facility ID	
Application ID	NAB1715733412

Remediation Plan

<u>Remediation Plan Checklist:</u> 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: <u>Thomas Haigood</u> Title: <u>Permian HSE Specialist</u>
Signature: Date: 7/18/19
email: <u>Thomas.haigood@mavresources.com</u> Telephone: <u>(432) 523-1807</u>
OCD Only
Received by: Date:
Approved with Attached Conditions of Approval Denied XDeferral Approved
Signature: Bradford Billings Date: 08/06/2021

Maverick Resources Eddy County, New Mexico

Appendix C Analytical Data

Date Reported:

v					Date Reported.		
CLIENT: Safety & Environmental Solut	Client Sample ID: SP-1 2' Bottom						
Project: Maverick 647 731 Battery		(Collection Dat	e: 9/2	25/2019 9:15:00 AM		
Lab ID: 1909G16-001	Matrix: SOIL		Received Dat	e: 9/2	27/2019 9:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst:	CJS	
Chloride	3900	150	mg/Kg	50	10/4/2019 12:00:00 PM	47887	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst:	BRM	
Diesel Range Organics (DRO)	36	8.8	mg/Kg	1	10/2/2019 6:25:29 PM	47816	
Motor Oil Range Organics (MRO)	69	44	mg/Kg	1	10/2/2019 6:25:29 PM	47816	
Surr: DNOP	101	70-130	%Rec	1	10/2/2019 6:25:29 PM	47816	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/1/2019 11:12:43 AM	47787	
Surr: BFB	97.2	77.4-118	%Rec	1	10/1/2019 11:12:43 AM	47787	
EPA METHOD 8021B: VOLATILES					Analyst:	NSB	
Benzene	ND	0.024	mg/Kg	1	10/1/2019 11:12:43 AM	47787	
Toluene	ND	0.048	mg/Kg	1	10/1/2019 11:12:43 AM	47787	
Ethylbenzene	ND	0.048	mg/Kg	1	10/1/2019 11:12:43 AM	47787	
Xylenes, Total	ND	0.096	mg/Kg	1	10/1/2019 11:12:43 AM	47787	
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	10/1/2019 11:12:43 AM	47787	

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

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 Quanitative 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

Page 1 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

· · · · · · · · · · · · · · · · · · ·	,				Date Reported.	
CLIENT: Safety & Environmental Solutions Client Sample ID: SP-2 2' Bottom						
Project: Maverick 647 731 Battery		(Collection Dat	e: 9/2	25/2019 9:30:00 AM	
Lab ID: 1909G16-002	Matrix: SOIL		Received Dat	e: 9/2	27/2019 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CJS
Chloride	3100	150	mg/Kg	50	10/4/2019 12:00:00 PM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst:	BRM
Diesel Range Organics (DRO)	36	10	mg/Kg	1	10/2/2019 7:32:31 PM	47816
Motor Oil Range Organics (MRO)	75	50	mg/Kg	1	10/2/2019 7:32:31 PM	47816
Surr: DNOP	84.6	70-130	%Rec	1	10/2/2019 7:32:31 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/1/2019 1:06:48 AM	47787
Surr: BFB	93.5	77.4-118	%Rec	1	10/1/2019 1:06:48 AM	47787
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	10/1/2019 1:06:48 AM	47787
Toluene	ND	0.048	mg/Kg	1	10/1/2019 1:06:48 AM	47787
Ethylbenzene	ND	0.048	mg/Kg	1	10/1/2019 1:06:48 AM	47787
Xylenes, Total	ND	0.097	mg/Kg	1	10/1/2019 1:06:48 AM	47787
Surr: 4-Bromofluorobenzene	94.1	80-120	%Rec	1	10/1/2019 1:06:48 AM	47787

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

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 Quanitative 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

Page 2 of 0

Date Reported:

	J.	J)					Date Reported.	
CLIENT: S	afety & Environmental Soluti	ons	Cl	ient Sam	ple II): SP	-3 2' Bottom	
Project: N	Maverick 647 731 Battery			Collectior	n Date	e: 9/2	5/2019 9:55:00 AM	
Lab ID: 1	909G16-003	Matrix: SOIL		Received	l Date	e: 9/2	7/2019 9:30:00 AM	
Analyses		Result	RL	Qual U	nits	DF	Date Analyzed	Batch
EPA METH	OD 300.0: ANIONS						Analyst:	CAS
Chloride		190	60	m	g/Kg	20	10/3/2019 4:17:57 AM	47887
EPA METH	OD 8015M/D: DIESEL RANG	E ORGANICS					Analyst:	BRM
Diesel Ran	ge Organics (DRO)	14	9.1	m	g/Kg	1	10/2/2019 7:54:57 PM	47816
Motor Oil R	ange Organics (MRO)	64	45	m	g/Kg	1	10/2/2019 7:54:57 PM	47816
Surr: DN	IOP	102	70-130	%	Rec	1	10/2/2019 7:54:57 PM	47816
EPA METH	OD 8015D: GASOLINE RAN	GE					Analyst:	NSB
Gasoline R	ange Organics (GRO)	ND	4.7	m	g/Kg	1	10/1/2019 1:29:54 AM	47787
Surr: BF	В	95.9	77.4-118	%	Rec	1	10/1/2019 1:29:54 AM	47787
EPA METH	OD 8021B: VOLATILES						Analyst:	NSB
Benzene		ND	0.024	m	g/Kg	1	10/1/2019 1:29:54 AM	47787
Toluene		ND	0.047	m	g/Kg	1	10/1/2019 1:29:54 AM	47787
Ethylbenze	ne	ND	0.047	m	g/Kg	1	10/1/2019 1:29:54 AM	47787
Xylenes, To	otal	ND	0.095	m	g/Kg	1	10/1/2019 1:29:54 AM	47787
Surr: 4-E	Bromofluorobenzene	94.7	80-120	%	Rec	1	10/1/2019 1:29:54 AM	47787

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

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 Quanitative 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

Page 3 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

					Date Reported.	
CLIENT: Safety & Environmental Solut	tions	Clie	ent Sample II	D: SP	-4 1.5' Bottom	
Project: Maverick 647 731 Battery		C	ollection Dat	e: 9/2	25/2019 10:15:00 AM	
Lab ID: 1909G16-004	Matrix: SOIL	I	Received Dat	e: 9/2	27/2019 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	97	60	mg/Kg	20	10/3/2019 4:30:17 AM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	18	8.5	mg/Kg	1	10/2/2019 8:17:19 PM	47816
Motor Oil Range Organics (MRO)	82	42	mg/Kg	1	10/2/2019 8:17:19 PM	47816
Surr: DNOP	90.2	70-130	%Rec	1	10/2/2019 8:17:19 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/1/2019 1:52:58 AM	47787
Surr: BFB	97.5	77.4-118	%Rec	1	10/1/2019 1:52:58 AM	47787
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/1/2019 1:52:58 AM	47787
Toluene	ND	0.047	mg/Kg	1	10/1/2019 1:52:58 AM	47787
Ethylbenzene	ND	0.047	mg/Kg	1	10/1/2019 1:52:58 AM	47787
Xylenes, Total	ND	0.094	mg/Kg	1	10/1/2019 1:52:58 AM	47787
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	10/1/2019 1:52:58 AM	47787

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

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 Quanitative 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

Page 4 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

·	Ċ,					
CLIENT: Safety & Environmental Solut	tions	Cli	ient Sample II	D: SP	-5 South Wall	
Project: Maverick 647 731 Battery		0	Collection Dat	e: 9/2	25/2019 11:25:00 AM	
Lab ID: 1909G16-005	Matrix: SOIL		Received Dat	e: 9/2	27/2019 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	180	60	mg/Kg	20	10/3/2019 4:42:37 AM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	12	9.4	mg/Kg	1	10/2/2019 8:39:38 PM	47816
Motor Oil Range Organics (MRO)	60	47	mg/Kg	1	10/2/2019 8:39:38 PM	47816
Surr: DNOP	84.9	70-130	%Rec	1	10/2/2019 8:39:38 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/1/2019 2:16:05 AM	47787
Surr: BFB	93.7	77.4-118	%Rec	1	10/1/2019 2:16:05 AM	47787
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/1/2019 2:16:05 AM	47787
Toluene	ND	0.048	mg/Kg	1	10/1/2019 2:16:05 AM	47787
Ethylbenzene	ND	0.048	mg/Kg	1	10/1/2019 2:16:05 AM	47787
Xylenes, Total	ND	0.096	mg/Kg	1	10/1/2019 2:16:05 AM	47787
Surr: 4-Bromofluorobenzene	90.7	80-120	%Rec	1	10/1/2019 2:16:05 AM	47787

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

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 Quanitative 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

Page 5 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

	e x				F	
CLIENT: Safety & Environmental Solut Project: Maverick 647 731 Battery	tions		ient Sample II Collection Dat		-6 South Wall 5/2019 12:10:00 PM	
Lab ID: 1909G16-006	Matrix: SOIL		Received Dat	e: 9/2	7/2019 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	270	60	mg/Kg	20	10/3/2019 4:54:56 AM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	11	9.0	mg/Kg	1	10/2/2019 9:01:51 PM	47816
Motor Oil Range Organics (MRO)	53	45	mg/Kg	1	10/2/2019 9:01:51 PM	47816
Surr: DNOP	87.6	70-130	%Rec	1	10/2/2019 9:01:51 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/1/2019 2:39:14 AM	47787
Surr: BFB	95.3	77.4-118	%Rec	1	10/1/2019 2:39:14 AM	47787
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/1/2019 2:39:14 AM	47787
Toluene	ND	0.049	mg/Kg	1	10/1/2019 2:39:14 AM	47787
Ethylbenzene	ND	0.049	mg/Kg	1	10/1/2019 2:39:14 AM	47787
Xylenes, Total	ND	0.097	mg/Kg	1	10/1/2019 2:39:14 AM	47787
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	10/1/2019 2:39:14 AM	47787

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

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 Quanitative 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

Page 6 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

					Bute Reported.	
CLIENT: Safety & Environmental Solu	tions	Cli	ient Sample II	D: SP	-7 South Wall	
Project: Maverick 647 731 Battery		0	Collection Dat	e: 9/2	25/2019 12:35:00 PM	
Lab ID: 1909G16-007	Matrix: SOIL		Received Dat	e: 9/2	27/2019 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	700	60	mg/Kg	20	10/3/2019 5:07:17 AM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/2/2019 9:24:07 PM	47816
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/2/2019 9:24:07 PM	47816
Surr: DNOP	83.2	70-130	%Rec	1	10/2/2019 9:24:07 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/1/2019 1:33:45 PM	47808
Surr: BFB	96.0	77.4-118	%Rec	1	10/1/2019 1:33:45 PM	47808
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/1/2019 1:33:45 PM	47808
Toluene	ND	0.048	mg/Kg	1	10/1/2019 1:33:45 PM	47808
Ethylbenzene	ND	0.048	mg/Kg	1	10/1/2019 1:33:45 PM	47808
Xylenes, Total	ND	0.097	mg/Kg	1	10/1/2019 1:33:45 PM	47808
Surr: 4-Bromofluorobenzene	92.2	80-120	%Rec	1	10/1/2019 1:33:45 PM	47808

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

Page 7 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

•	Ċ,					
CLIENT: Safety & Environmental Solu	tions	Cli	ient Sample II	D: SP	-8 North Wall	
Project: Maverick 647 731 Battery		(Collection Dat	e: 9/2	26/2019 10:15:00 AM	
Lab ID: 1909G16-008	Matrix: SOIL		Received Dat	e: 9/2	27/2019 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	280	60	mg/Kg	20	10/3/2019 5:19:38 AM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	9.7	9.5	mg/Kg	1	10/2/2019 9:46:15 PM	47816
Motor Oil Range Organics (MRO)	52	48	mg/Kg	1	10/2/2019 9:46:15 PM	47816
Surr: DNOP	80.0	70-130	%Rec	1	10/2/2019 9:46:15 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/1/2019 2:44:12 PM	47808
Surr: BFB	98.0	77.4-118	%Rec	1	10/1/2019 2:44:12 PM	47808
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	10/1/2019 2:44:12 PM	47808
Toluene	ND	0.049	mg/Kg	1	10/1/2019 2:44:12 PM	47808
Ethylbenzene	ND	0.049	mg/Kg	1	10/1/2019 2:44:12 PM	47808
Xylenes, Total	ND	0.098	mg/Kg	1	10/1/2019 2:44:12 PM	47808
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	10/1/2019 2:44:12 PM	47808

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

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 Quanitative 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

Page 8 of 0

Date Reported:

č						Date Reported.		
CLIENT: Safety & Environmental Solution	ons	Cl	ient Sa	ample II	D: SP	-9 North Wall		
Project: Maverick 647 731 Battery		(Collect	tion Dat	e: 9/2	26/2019 10:55:00 AM		
Lab ID: 1909G16-009	Matrix: SOIL	Received Date: 9/27/2019 9:30:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst:	CAS	
Chloride	560	60		mg/Kg	20	10/3/2019 5:56:41 AM	47887	
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS					Analyst:	BRM	
Diesel Range Organics (DRO)	9.7	8.9		mg/Kg	1	10/2/2019 10:08:40 PM	47816	
Motor Oil Range Organics (MRO)	49	45		mg/Kg	1	10/2/2019 10:08:40 PM	47816	
Surr: DNOP	59.4	70-130	S	%Rec	1	10/2/2019 10:08:40 PM	47816	
EPA METHOD 8015D: GASOLINE RANG	Ε					Analyst:	NSB	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/1/2019 3:54:30 PM	47808	
Surr: BFB	98.4	77.4-118		%Rec	1	10/1/2019 3:54:30 PM	47808	
EPA METHOD 8021B: VOLATILES						Analyst:	NSB	
Benzene	ND	0.024		mg/Kg	1	10/1/2019 3:54:30 PM	47808	
Toluene	ND	0.047		mg/Kg	1	10/1/2019 3:54:30 PM	47808	
Ethylbenzene	ND	0.047		mg/Kg	1	10/1/2019 3:54:30 PM	47808	
Xylenes, Total	ND	0.095		mg/Kg	1	10/1/2019 3:54:30 PM	47808	
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	10/1/2019 3:54:30 PM	47808	

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

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 Quanitative 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

Page 9 of 0

Date Reported:

Hall Environmental A	nalvsis Laboratory, Ir	ıc.
----------------------	------------------------	-----

 ,					Date Reported.	
CLIENT: Safety & Environmental Solut	tions	Cl	lient Sa	ample II	D: SP	-10 West Wall	
Project: Maverick 647 731 Battery		(Collect	tion Dat	e: 9/2	26/2019 11:10:00 AM	
Lab ID: 1909G16-010	Matrix: SOIL		Recei	ved Dat	e: 9/2	27/2019 9:30:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	620	60		mg/Kg	20	10/3/2019 6:09:01 AM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst:	BRM
Diesel Range Organics (DRO)	9.9	8.5		mg/Kg	1	10/2/2019 10:30:52 PM	47816
Motor Oil Range Organics (MRO)	49	42		mg/Kg	1	10/2/2019 10:30:52 PM	47816
Surr: DNOP	65.5	70-130	S	%Rec	1	10/2/2019 10:30:52 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/1/2019 5:05:11 PM	47808
Surr: BFB	105	77.4-118		%Rec	1	10/1/2019 5:05:11 PM	47808
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	10/1/2019 5:05:11 PM	47808
Toluene	ND	0.050		mg/Kg	1	10/1/2019 5:05:11 PM	47808
Ethylbenzene	ND	0.050		mg/Kg	1	10/1/2019 5:05:11 PM	47808
Xylenes, Total	ND	0.10		mg/Kg	1	10/1/2019 5:05:11 PM	47808
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/1/2019 5:05:11 PM	47808

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

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 Quanitative 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

Page 10 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

v						Bute Reported.		
CLIENT: Safety & Environmental Solut	tions	Cl	ient S	ample I	D: SP	-11 East Wall		
Project: Maverick 647 731 Battery		(Collec	tion Dat	e: 9/2	26/2019 11:30:00 AM		
Lab ID: 1909G16-011	Matrix: SOIL		Received Date: 9/27/2019 9:30:00 AM					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst:	CAS	
Chloride	160	60		mg/Kg	20	10/3/2019 6:21:21 AM	47887	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst:	BRM	
Diesel Range Organics (DRO)	15	9.3		mg/Kg	1	10/2/2019 10:53:13 PM	47816	
Motor Oil Range Organics (MRO)	60	46		mg/Kg	1	10/2/2019 10:53:13 PM	47816	
Surr: DNOP	63.7	70-130	S	%Rec	1	10/2/2019 10:53:13 PM	47816	
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	NSB	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/1/2019 5:28:38 PM	47808	
Surr: BFB	94.0	77.4-118		%Rec	1	10/1/2019 5:28:38 PM	47808	
EPA METHOD 8021B: VOLATILES						Analyst:	NSB	
Benzene	ND	0.025		mg/Kg	1	10/1/2019 5:28:38 PM	47808	
Toluene	ND	0.050		mg/Kg	1	10/1/2019 5:28:38 PM	47808	
Ethylbenzene	ND	0.050		mg/Kg	1	10/1/2019 5:28:38 PM	47808	
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2019 5:28:38 PM	47808	
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	10/1/2019 5:28:38 PM	47808	

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

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 Quanitative 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

Page 11 of 0

Date Reported:

						Date Reported.	
CLIENT: Safety & Environmental Solu	tions	Cl	ient S	ample I	D: SP	-12 Release Point 3'	
Project: Maverick 647 731 Battery	Project: Maverick 647 731 Battery				e: 9/2	26/2019 1:45:00 PM	
Lab ID: 1909G16-012	Matrix: SOIL		Recei	ived Dat	e: 9/2	27/2019 9:30:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	370	60		mg/Kg	20	10/3/2019 6:33:42 AM	47887
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst:	BRM
Diesel Range Organics (DRO)	230	48		mg/Kg	5	10/2/2019 11:15:14 PM	47816
Motor Oil Range Organics (MRO)	280	240		mg/Kg	5	10/2/2019 11:15:14 PM	47816
Surr: DNOP	56.4	70-130	S	%Rec	5	10/2/2019 11:15:14 PM	47816
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2019 5:52:06 PM	47808
Surr: BFB	98.2	77.4-118		%Rec	1	10/1/2019 5:52:06 PM	47808
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	10/1/2019 5:52:06 PM	47808
Toluene	ND	0.049		mg/Kg	1	10/1/2019 5:52:06 PM	47808
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2019 5:52:06 PM	47808
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2019 5:52:06 PM	47808
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	10/1/2019 5:52:06 PM	47808

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

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 Quanitative 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

Page 12 of 0

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
Safety & Environmental Solutions, Inc.	329088
PO Box 1613	Action Number:
Hobbs, NM 88240	4114
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS		
Created By	Condition	Condition Date
bbillings	Deferral request is approved. Not a Closure. At P&A depth to groundwater may need more definition.	8/6/2021

Page 27 of 27

Action 4114