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

Closure Report

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

2RP-4238

REJECTED

October 7, 2019

Operator Submited To C-144 Portal,
Incomplete C-144, Denied
CSmith DIII

incident# NAB1715733412

Prepared for:

Maverick Resources
PO Box 678
Andrews, TX

By:

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

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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. Characterization

The site has been remediated according to the NMOCD NMAC 19.15.29 published guidelines (July 24, 2018). The site ranking and soil screening levels as presented in the table below:

Table 1 Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
<50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015B	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

V. Work Performed

On July 03, 2019 SESI personnel, together with personnel and equipment from Custom Welding of Hobbs, NM were on site to advance soil testing trenches, four (4) areas were designated for trenching activity. The trenches were advanced in order to determine vertical extent of the impact. The horizontal impact would be determined at time of excavation and soil sampling of sidewalls. All soil samples were properly packaged, preserved, and transported to Hall Laboratories for analyses of Chloride (CL Method 300.0 Anions), Total Petroleum Hydrocarbons (TPH Method 8015), and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX Method 8021B). The table below is a recap of the results from the hall Laboratory Analyses (Appendix C)

Breitburn Soil Sample Results: Hall Laboratories 7-30-18 State 647-731 Tank Battery					
SAMPLE ID	Chloride	DRO	GRO	EXT DRO	BTEX
TT-1 Surface	1200	24000	ND	14000	ND
TT1 @ 1ft	470	1600	ND	3100	ND
TT-2 Surface	150	3200	ND	6600	ND
TT-2 @ 1ft	230	1400	ND	1300	ND
TT-3 Surface	65	9400	ND	8200	ND
TT-3 @ 1ft	150	3100	ND	2200	ND
TT-4 Surface	4100	22	ND	100	ND
TT-4 @ 1ft	1500	ND	ND	ND	ND

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' Bottom	3900	36	69	ND	ND
SP2 @2' Bottom	3100	36	75	ND	ND
SP3 @2' Bottom	190	14	64	ND	ND
SP4 @1.5' Bottom	97	18	82	ND	ND
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 Wall	620	9.9	49	ND	ND
SP11 East Wall	160	15	60	ND	ND
SP12 Release Point @ 3'	370	230	280	ND	ND

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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
Appendix D – Disposal Manifests
Appendix E – Groundwater Data

Figure 1
Site Map

Breitburn State 647-721Battery

Scaled Site Remediation

Legend

- Excavation
- Location
- Pipeline
- Sample Position
- Spill Path
- Wall

32.706545, -104.179520

State 647 AC 731 Tank Battery

SP9 North Wall

SP12 East Wall

SP8 North Wall

SP2 Bottom @ 2'

SP4 Bottom @ 1'

SP12 Release Point @ 3'

SP2

SP4

SP1

SP7 South Wall

SP10 West Wall

SP1 Bottom @ 2'

SP3

SP3 Bottom @ 2'

SP5 Wouth Wall

SP6 South Wall

Surveu

Google Earth

N

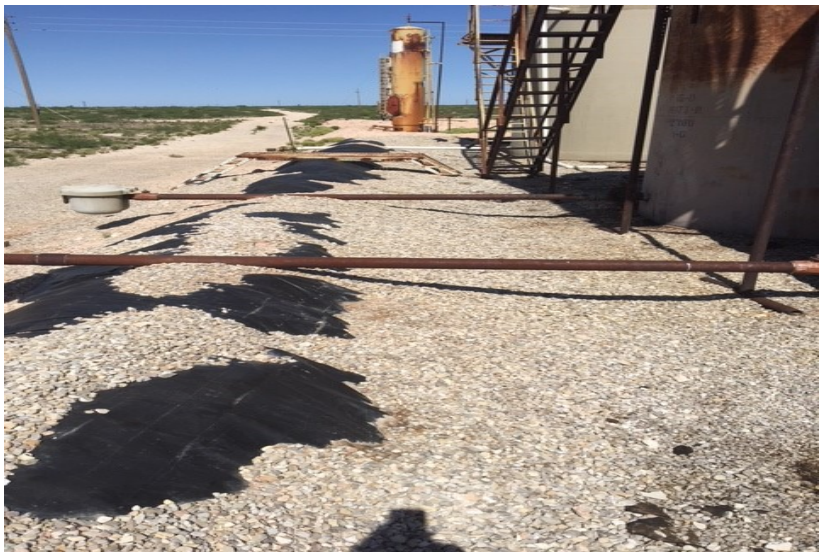
50 ft

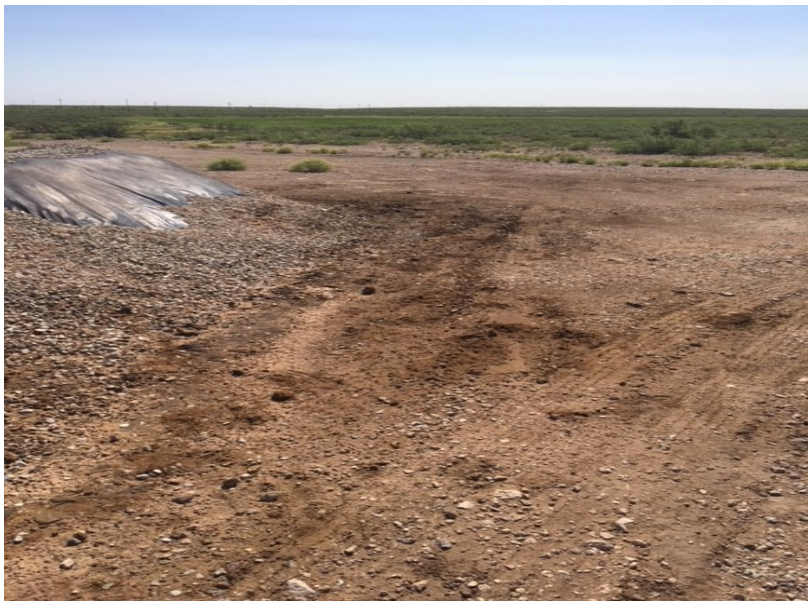
Appendix A
Site Photographs

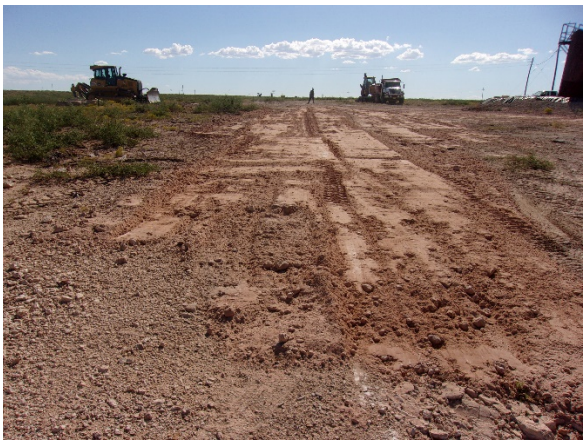
Completion

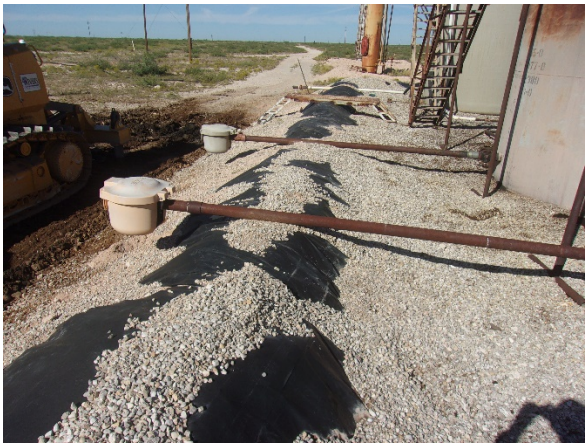
Maverick Resources

State 647-721 Battery

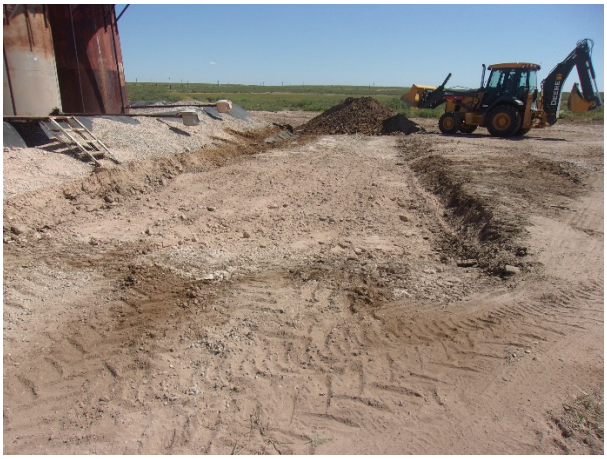


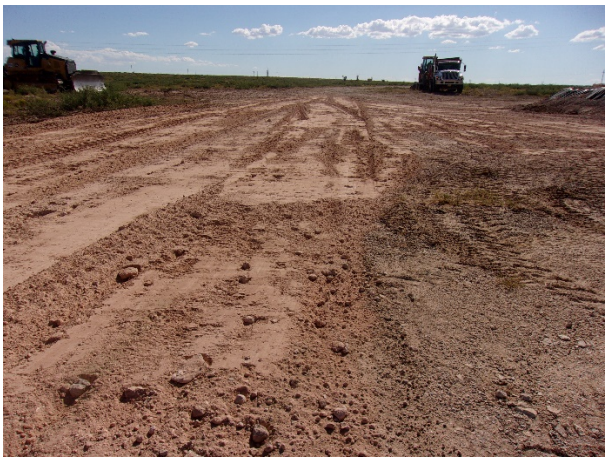






Excavation

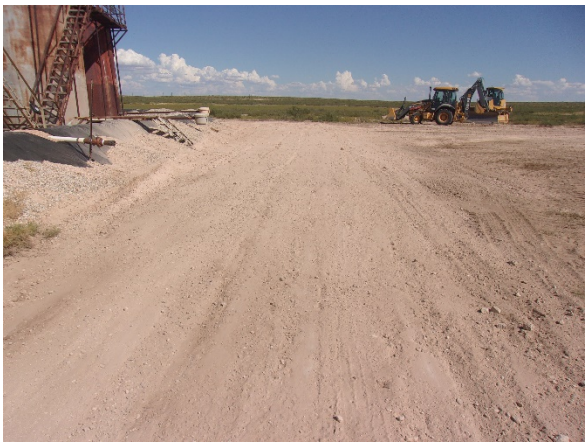


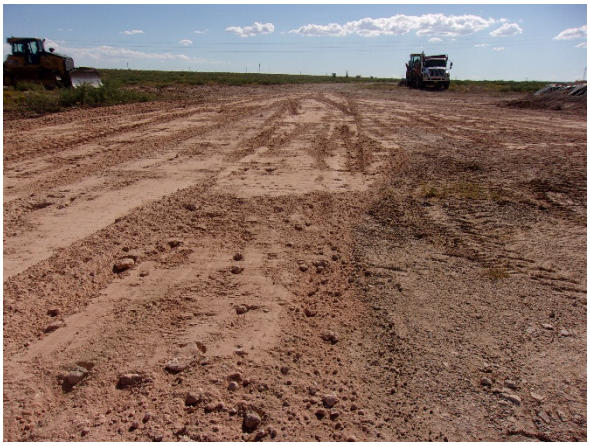


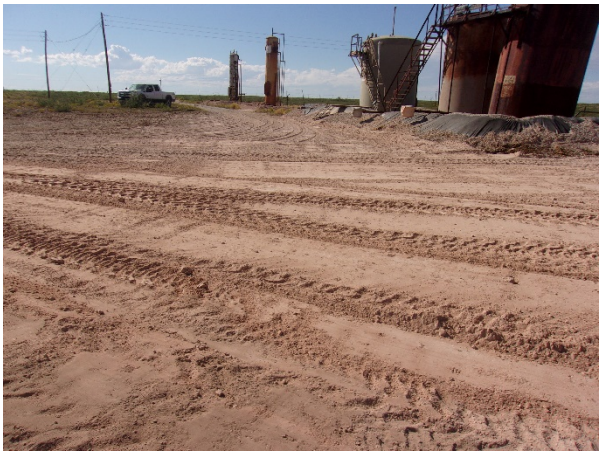
Lease Road Area

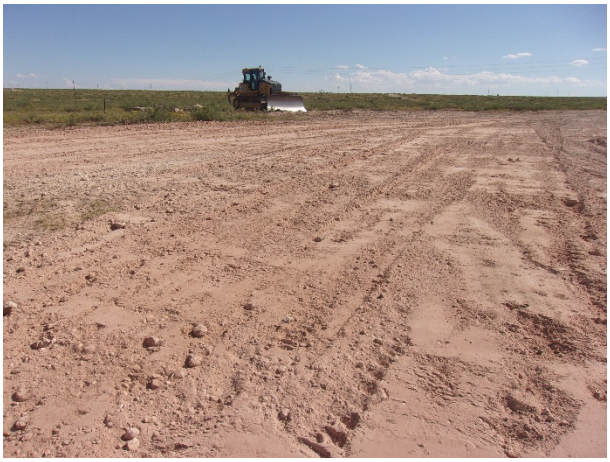
Release Point

Completion









Appendix B
C-141

State of New Mexico
Oil Conservation Division

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

Closure

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

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

- ■ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ■ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ■ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ■ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Thomas Haigood Title: Permian HSE Specialist

Signature:  Date: 7/18/19

email: Thomas.haigood@mavresources.com Telephone: (432) 523-1807

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

REJECTED

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix C
Analytical Data

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 30, 2019

Bob Allen

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

RE: Maverick Jalmat 731 OrderNo.: 1907511

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/11/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 18, 2019.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #1 Surface
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 11:07:00 AM
Lab ID: 1907511-001 **Matrix:** SOIL **Received Date:** 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1200	60		mg/Kg	20	7/16/2019 9:21:56 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	24000	960		mg/Kg	100	7/13/2019 12:06:39 PM	46156
Motor Oil Range Organics (MRO)	14000	4800		mg/Kg	100	7/13/2019 12:06:39 PM	46156
Surr: DNOP	0	70-130	S	%Rec	100	7/13/2019 12:06:39 PM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	7/12/2019 11:17:17 AM	46131
Surr: BFB	105	73.8-119	D	%Rec	5	7/12/2019 11:17:17 AM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	7/12/2019 11:17:17 AM	46131
Toluene	ND	0.24	D	mg/Kg	5	7/12/2019 11:17:17 AM	46131
Ethylbenzene	ND	0.24	D	mg/Kg	5	7/12/2019 11:17:17 AM	46131
Xylenes, Total	ND	0.48	D	mg/Kg	5	7/12/2019 11:17:17 AM	46131
Surr: 4-Bromofluorobenzene	95.2	80-120	D	%Rec	5	7/12/2019 11:17:17 AM	46131

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #2 Surface
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 11:22:00 AM
Lab ID: 1907511-002 **Matrix:** SOIL
Received Date: 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	150	60		mg/Kg	20	7/16/2019 9:59:09 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	3200	890		mg/Kg	100	7/13/2019 12:28:49 PM	46156
Motor Oil Range Organics (MRO)	6600	4400		mg/Kg	100	7/13/2019 12:28:49 PM	46156
Surr: DNOP	0	70-130	S	%Rec	100	7/13/2019 12:28:49 PM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	7/12/2019 11:39:59 AM	46131
Surr: BFB	106	73.8-119	D	%Rec	5	7/12/2019 11:39:59 AM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	7/12/2019 11:39:59 AM	46131
Toluene	ND	0.25	D	mg/Kg	5	7/12/2019 11:39:59 AM	46131
Ethylbenzene	ND	0.25	D	mg/Kg	5	7/12/2019 11:39:59 AM	46131
Xylenes, Total	ND	0.50	D	mg/Kg	5	7/12/2019 11:39:59 AM	46131
Surr: 4-Bromofluorobenzene	96.5	80-120	D	%Rec	5	7/12/2019 11:39:59 AM	46131

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #1 @ 1'
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 11:28:00 AM
Lab ID: 1907511-003 **Matrix:** SOIL **Received Date:** 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	470	60		mg/Kg	20	7/16/2019 10:11:34 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	1600	96		mg/Kg	10	7/15/2019 11:17:35 PM	46156
Motor Oil Range Organics (MRO)	3100	480		mg/Kg	10	7/15/2019 11:17:35 PM	46156
Surr: DNOP	0	70-130	S	%Rec	10	7/15/2019 11:17:35 PM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	7/12/2019 12:02:38 PM	46131
Surr: BFB	104	73.8-119	D	%Rec	5	7/12/2019 12:02:38 PM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	7/12/2019 12:02:38 PM	46131
Toluene	ND	0.25	D	mg/Kg	5	7/12/2019 12:02:38 PM	46131
Ethylbenzene	ND	0.25	D	mg/Kg	5	7/12/2019 12:02:38 PM	46131
Xylenes, Total	ND	0.50	D	mg/Kg	5	7/12/2019 12:02:38 PM	46131
Surr: 4-Bromofluorobenzene	93.8	80-120	D	%Rec	5	7/12/2019 12:02:38 PM	46131

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #2 @ 1'
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 11:50:00 AM
Lab ID: 1907511-004 **Matrix:** SOIL
Received Date: 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	230	60		mg/Kg	20	7/16/2019 10:23:59 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	1400	94		mg/Kg	10	7/16/2019 3:34:48 PM	46156
Motor Oil Range Organics (MRO)	1300	470		mg/Kg	10	7/16/2019 3:34:48 PM	46156
Surr: DNOP	0	70-130	S	%Rec	10	7/16/2019 3:34:48 PM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	7/12/2019 12:25:18 PM	46131
Surr: BFB	106	73.8-119	D	%Rec	5	7/12/2019 12:25:18 PM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	7/12/2019 12:25:18 PM	46131
Toluene	ND	0.25	D	mg/Kg	5	7/12/2019 12:25:18 PM	46131
Ethylbenzene	ND	0.25	D	mg/Kg	5	7/12/2019 12:25:18 PM	46131
Xylenes, Total	ND	0.50	D	mg/Kg	5	7/12/2019 12:25:18 PM	46131
Surr: 4-Bromofluorobenzene	97.5	80-120	D	%Rec	5	7/12/2019 12:25:18 PM	46131

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #3 Surface
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 12:05:00 PM
Lab ID: 1907511-005 **Matrix:** SOIL **Received Date:** 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	65	60		mg/Kg	20	7/16/2019 10:36:23 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	9400	860		mg/Kg	100	7/13/2019 1:35:23 PM	46156
Motor Oil Range Organics (MRO)	8200	4300		mg/Kg	100	7/13/2019 1:35:23 PM	46156
Surr: DNOP	0	70-130	S	%Rec	100	7/13/2019 1:35:23 PM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	7/12/2019 12:47:59 PM	46131
Surr: BFB	104	73.8-119	D	%Rec	5	7/12/2019 12:47:59 PM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	7/12/2019 12:47:59 PM	46131
Toluene	ND	0.24	D	mg/Kg	5	7/12/2019 12:47:59 PM	46131
Ethylbenzene	ND	0.24	D	mg/Kg	5	7/12/2019 12:47:59 PM	46131
Xylenes, Total	ND	0.48	D	mg/Kg	5	7/12/2019 12:47:59 PM	46131
Surr: 4-Bromofluorobenzene	95.7	80-120	D	%Rec	5	7/12/2019 12:47:59 PM	46131

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #4 Surface
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 12:10:00 PM
Lab ID: 1907511-006 **Matrix:** SOIL **Received Date:** 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	4100	150		mg/Kg	50	7/17/2019 5:46:16 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	22	9.7		mg/Kg	1	7/16/2019 12:47:04 AM	46156
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	7/16/2019 12:47:04 AM	46156
Surr: DNOP	102	70-130		%Rec	1	7/16/2019 12:47:04 AM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	7/12/2019 1:10:41 PM	46131
Surr: BFB	107	73.8-119	D	%Rec	5	7/12/2019 1:10:41 PM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	7/12/2019 1:10:41 PM	46131
Toluene	ND	0.24	D	mg/Kg	5	7/12/2019 1:10:41 PM	46131
Ethylbenzene	ND	0.24	D	mg/Kg	5	7/12/2019 1:10:41 PM	46131
Xylenes, Total	ND	0.48	D	mg/Kg	5	7/12/2019 1:10:41 PM	46131
Surr: 4-Bromofluorobenzene	96.9	80-120	D	%Rec	5	7/12/2019 1:10:41 PM	46131

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #3 @ 1'
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 12:20:00 PM
Lab ID: 1907511-007 **Matrix:** SOIL **Received Date:** 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	150	60		mg/Kg	20	7/16/2019 11:01:12 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	3100	96		mg/Kg	10	7/16/2019 1:09:18 AM	46156
Motor Oil Range Organics (MRO)	2200	480		mg/Kg	10	7/16/2019 1:09:18 AM	46156
Surr: DNOP	0	70-130	S	%Rec	10	7/16/2019 1:09:18 AM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	7/12/2019 1:33:27 PM	46131
Surr: BFB	106	73.8-119	D	%Rec	5	7/12/2019 1:33:27 PM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12	D	mg/Kg	5	7/12/2019 1:33:27 PM	46131
Toluene	ND	0.24	D	mg/Kg	5	7/12/2019 1:33:27 PM	46131
Ethylbenzene	ND	0.24	D	mg/Kg	5	7/12/2019 1:33:27 PM	46131
Xylenes, Total	ND	0.49	D	mg/Kg	5	7/12/2019 1:33:27 PM	46131
Surr: 4-Bromofluorobenzene	97.9	80-120	D	%Rec	5	7/12/2019 1:33:27 PM	46131

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: #4 @ 1'
Project: Maverick Jalmat 731
Collection Date: 7/3/2019 12:30:00 PM
Lab ID: 1907511-008 **Matrix:** SOIL **Received Date:** 7/11/2019 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1500	60		mg/Kg	20	7/16/2019 11:13:36 PM	46214
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	7/16/2019 3:59:15 PM	46156
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/16/2019 3:59:15 PM	46156
Surr: DNOP	111	70-130		%Rec	1	7/16/2019 3:59:15 PM	46156
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2019 1:56:09 PM	46131
Surr: BFB	160	73.8-119	S	%Rec	1	7/12/2019 1:56:09 PM	46131
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/12/2019 1:56:09 PM	46131
Toluene	ND	0.050		mg/Kg	1	7/12/2019 1:56:09 PM	46131
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2019 1:56:09 PM	46131
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2019 1:56:09 PM	46131
Surr: 4-Bromofluorobenzene	145	80-120	S	%Rec	1	7/12/2019 1:56:09 PM	46131

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907511**

30-Jul-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 731

Sample ID: **MB-46214**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **46214**	RunNo: **61409**
Prep Date: **7/16/2019**	Analysis Date: **7/16/2019**	SeqNo: **2082660** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-46214**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **46214**	RunNo: **61409**
Prep Date: **7/16/2019**	Analysis Date: **7/16/2019**	SeqNo: **2082661** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907511**

30-Jul-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 731

Sample ID: **LCS-46156**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **46156**	RunNo: **61377**
Prep Date: **7/12/2019**	Analysis Date: **7/13/2019**	SeqNo: **2080458** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	115	63.9	124			
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: **MB-46156**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **46156**	RunNo: **61377**
Prep Date: **7/12/2019**	Analysis Date: **7/13/2019**	SeqNo: **2080459** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		127	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907511**

30-Jul-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 731

Sample ID: **MB-46131**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **46131**	RunNo: **61347**
Prep Date: **7/11/2019**	Analysis Date: **7/12/2019**	SeqNo: **2080016** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.9	73.8	119			

Sample ID: **LCS-46131**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **46131**	RunNo: **61347**
Prep Date: **7/11/2019**	Analysis Date: **7/12/2019**	SeqNo: **2080017** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.2	80.1	123			
Surr: BFB	1100		1000		109	73.8	119			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907511**

30-Jul-19

Client: Safety & Environmental Solutions

Project: Maverick Jalmat 731

Sample ID: **MB-46131**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **46131**	RunNo: **61347**
Prep Date: **7/11/2019**	Analysis Date: **7/12/2019**	SeqNo: **2080039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.5	80	120			

Sample ID: **LCS-46131**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **46131**	RunNo: **61347**
Prep Date: **7/11/2019**	Analysis Date: **7/12/2019**	SeqNo: **2080040** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Safety Env Solutions | Work Order Number: 1907511 | RcptNo: 1

Received By: **Desiree Dominguez** 7/11/2019 9:00:00 AM DD

Completed By: **Michelle Garcia** 7/11/2019 11:23:49 AM Michelle Garcia

Reviewed By: LB 7/11/19

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: DAD 7/11/19

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good	Yes			

Chain-of-Custody Record

Client: Safety & Environmental Solutions Inc

Mailing Address: 703 E Clinton Hobbs, NM 88240

Phone #: (575) 397 0510

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day Turn
☒ Standard ☐ Rush

Project Name: Maverick Jalmat 731

Project #: MAV-19-007

Project Manager: Allen, Bob

Sampler: Roberto Martinez Jr.

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.9 +0.0 = 5.9°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1907511	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
7-3-19	1107	S	#1	4oz Jar 1	Ice	001	X	X					X			
7-3-19	1122	S	#2	4oz Jar 1	Ice	002	X	X					X			
7-3-19	1128	S	#3	4oz Jar 1	Ice	003	X	X					X			
7-3-19	1150	S	#4	4oz Jar 1	Ice	004	X	X					X			
7-3-19	1205	S	#5	4oz Jar 1	Ice	005	X	X					X			
7-3-19	1210	S	#6	4oz Jar 1	Ice	006	X	X					X			
7-3-19	1220	S	#7	4oz Jar 1	Ice	007	X	X					X			
7-3-19	1230	S	#8	4oz Jar 1	Ice	008	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7-10-19	1300	Roberto Martinez Jr.			7/10/19	1500
7/10/19	1900			Courier	7/11/19	9:00

Remarks: Per Rebecca - change the sample ID's to read as follows: 7/30/19
#1 surface #2 @ 1' #3 @ 1'
#2 surface #3 surface #4 @ 1'
#1 @ 1' #4 surface

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

Analytical Report
Lab Order **1909G16**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-1 2' Bottom
Project: Maverick 647 731 Battery
Collection Date: 9/25/2019 9:15:00 AM
Lab ID: 1909G16-001 **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: **CJS**	
Chloride	3900	150		mg/Kg	50	10/4/2019 12:00:00 PM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-2 2' Bottom
Project: Maverick 647 731 Battery
Collection Date: 9/25/2019 9:30:00 AM
Lab ID: 1909G16-002 **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:	**CJS**
Chloride	3100	150		mg/Kg	50	10/4/2019 12:00:00 PM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-3 2' Bottom
Project: Maverick 647 731 Battery
Collection Date: 9/25/2019 9:55:00 AM
Lab ID: 1909G16-003 **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	190	60		mg/Kg	20	10/3/2019 4:17:57 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	14	9.1		mg/Kg	1	10/2/2019 7:54:57 PM	47816
Motor Oil Range Organics (MRO)	64	45		mg/Kg	1	10/2/2019 7:54:57 PM	47816
Surr: DNOP	102	70-130		%Rec	1	10/2/2019 7:54:57 PM	47816
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/1/2019 1:29:54 AM	47787
Surr: BFB	95.9	77.4-118		%Rec	1	10/1/2019 1:29:54 AM	47787
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/1/2019 1:29:54 AM	47787
Toluene	ND	0.047		mg/Kg	1	10/1/2019 1:29:54 AM	47787
Ethylbenzene	ND	0.047		mg/Kg	1	10/1/2019 1:29:54 AM	47787
Xylenes, Total	ND	0.095		mg/Kg	1	10/1/2019 1:29:54 AM	47787
Surr: 4-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-4 1.5' Bottom
Project: Maverick 647 731 Battery
Collection Date: 9/25/2019 10:15:00 AM
Lab ID: 1909G16-004 **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	97	60		mg/Kg	20	10/3/2019 4:30:17 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-5 South Wall
Project: Maverick 647 731 Battery
Collection Date: 9/25/2019 11:25:00 AM
Lab ID: 1909G16-005 **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	180	60		mg/Kg	20	10/3/2019 4:42:37 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-6 South Wall
Project: Maverick 647 731 Battery
Collection Date: 9/25/2019 12:10:00 PM
Lab ID: 1909G16-006 **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	270	60		mg/Kg	20	10/3/2019 4:54:56 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-7 South Wall
Project: Maverick 647 731 Battery
Collection Date: 9/25/2019 12:35:00 PM
Lab ID: 1909G16-007 **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	700	60		mg/Kg	20	10/3/2019 5:07:17 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-8 North Wall
Project: Maverick 647 731 Battery
Collection Date: 9/26/2019 10:15:00 AM
Lab ID: 1909G16-008 **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	280	60		mg/Kg	20	10/3/2019 5:19:38 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-9 North Wall
Project: Maverick 647 731 Battery
Collection Date: 9/26/2019 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 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-10 West Wall
Project: Maverick 647 731 Battery
Collection Date: 9/26/2019 11:10:00 AM
Lab ID: 1909G16-010 **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	620	60		mg/Kg	20	10/3/2019 6:09:01 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-11 East Wall
Project: Maverick 647 731 Battery
Collection Date: 9/26/2019 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 RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-12 Release Point 3'
Project: Maverick 647 731 Battery
Collection Date: 9/26/2019 1:45:00 PM
Lab ID: 1909G16-012 **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	370	60		mg/Kg	20	10/3/2019 6:33:42 AM	47887
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Appendix D
Disposal Manifests

Safety & Env Solutions Weights Statement - Total

Receive Date	*Manifest Number*	*Lease Name*	*Weight (lbs.)*	*Weight (Tons)*
9/25/2019	131925	State 647-629 TB (Maverick Oil)	84,560	42.28
9/26/2019	131957	State 647-629 TB (Maverick Oil)	95,860	47.93
9/26/2019	131958	State 647-629 TB (Maverick Oil)	36,140	18.07
9/26/2019	131959	State 647-629 TB (Maverick Oil)	62,280	31.14
9/26/2019	131960	State 647-629 TB (Maverick Oil)	50,640	25.32
9/26/2019	131961	State 647-629 TB (Maverick Oil)	41,220	20.61
		TOTALS:	370,700	185.35
			lbs.	*Tons*

Lea Land Landfill New Mexico
Mile Market # 64 US Highway 62/180
*30 miles East of Carlsbad, NM * (505) 887-4048*

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

M. Mata

NON-HAZARDOUS WASTE MANIFEST NO 131925 | 1. PAGE ___ OF ___ | 2. TRAILER NO. 30

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
Maverick Oil & Gas Corp.	1001 W. Wall St.			9/25/2019
PHONE NO. (432) 682-2500	CITY Midland	STATE TX	ZIP 79701	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. ~~Non-Regulated, Non Hazardous Waste~~					
b.					
c.					
d. WT: 43320 41240					

12. COMMENTS OR SPECIAL INSTRUCTIONS: State Le47-629 Tank ~~MAVERICK 629 BATTERY~~ Jm. Battery TC 84,560

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE
CO. MAN REBECCA PONS		

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: Safety Environmental	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: Bob Allen	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: (575) 390-7063	EMERGENCY PHONE:
18. **TRANSPORTER (1):** Acknowledgment of receipt of material	19. **TRANSPORTER (2):** Acknowledgment of receipt of material
PRINTED/TYPED NAME Martin Granados	PRINTED/TYPED NAME
SIGNATURE X	SIGNATURE
DATE 9/25/2019	DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Santos Gonzalez		9/25/2019	11:35

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

MMATT

NON-HAZARDOUS WASTE MANIFEST NO 131951 | 1. PAGE ___ OF ___ | 2. TRAILER NO. 12

GENERATOR

3. COMPANY NAME	4. ADDRESS			5. PICK-UP DATE
Maverick Oil & Gas Corp.	1001 W. Wall St.			9/26/2019
PHONE NO. (432) 682-2500	CITY Midland	STATE TX	ZIP 79701	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste					
b.					
c.					
d. WT: 49720 46,140					

12. COMMENTS OR SPECIAL INSTRUCTIONS: State 647-629 MAVERICK ~~620~~ BATTERY Tank Battery Tc 95860

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME	PHONE NO	24-HOUR EMERGENCY NO.
JOE ONTIVEROS	575-887-4048	

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME	SIGNATURE	DATE

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: SAFETY ENVIRONMENTAL	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: Rebecca Pons (575) 441-7980	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:
18. **TRANSPORTER (1):** Acknowledgment of receipt of material	19. **TRANSPORTER (2):** Acknowledgment of receipt of material
PRINTED/TYPED NAME Eli Acosta	PRINTED/TYPED NAME
SIGNATURE Eli Acosta DATE 9/26/2019	SIGNATURE DATE

DISPOSAL FACILITY

	ADDRESS:	PHONE:
Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	575-887-4048

PERMIT NO.	20. COMMENTS
WM-01-035 - New Mexico	

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE 9/26/2019	TIME 1035

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

M M~~M~~A

NON-HAZARDOUS WASTE MANIFEST NO 131958 | 1. PAGE ___ OF ___ | 2. TRAILER NO. 42

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
Maverick Oil & Gas Corp.	1001 W. Wall St.	9/26/2019
PHONE NO. (432) 682-2500	CITY Midland STATE TX ZIP 79701	6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a.					
b.					
c. WT:					
d. 36140					

12. COMMENTS OR SPECIAL INSTRUCTIONS: ~~MAVERICK 629 BATTERY~~ State 647-629 Tank Battery

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME: JOE ONTIVEROS | PHONE NO: 575-887-4048 | 24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME | SIGNATURE | DATE

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME: SAFETY ENVIRONMENTAL	NAME:
TEXAS I.D. NO.	TEXAS I.D. NO.
IN CASE OF EMERGENCY CONTACT: Rebecca Pons (575) 441-7980	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:
18. **TRANSPORTER (1):** Acknowledgment of receipt of material	19. **TRANSPORTER (2):** Acknowledgment of receipt of material
PRINTED/TYPED NAME Juan Galaviz	PRINTED/TYPED NAME
SIGNATURE DATE 9/26/2019	SIGNATURE DATE

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE 9/26/2019	TIME 1035

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

M MATA

NON-HAZARDOUS WASTE MANIFEST NO 131959 | 1. PAGE ___ OF ___ | 2. TRAILER NO. #30

GENERATOR

3. COMPANY NAME: Maverick Oil & Gas Corp. | 4. ADDRESS: 1801 W. Wall St. | 5. PICKUP DATE: 9/26/2019

PHONE NO: (432) 682-2500 | CITY: Midland | STATE: TX | ZIP: 79701 | 6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a.					
b.					
c.					
d. WT: 41540 20740					

12. COMMENTS/SPECIAL INSTRUCTIONS: MAVERICK ~~629 BATTERY~~ 647-629 Tank Battery To 62280

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME: JOE ONTIVEROS | PHONE NO: 575-887-4048 | 24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME | SIGNATURE | DATE

TRANSPORTERS

16. **TRANSPORTER (1)**

NAME: SAFETY ENVIRONMENTAL

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: Rebecca Pons

EMERGENCY PHONE: (575) 441-7980

17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME: JOE NO VISA

SIGNATURE: _____ DATE: 9/26/2019

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME: _____

SIGNATURE: _____ DATE: _____

DISPOSAL FACILITY

Lea Land, LLC | ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM | PHONE: 575-887-4048

PERMIT NO. WM-01-035 - New Mexico | 20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE | CELL NO. | DATE 9/26/2019 | TIME 1040

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

JA Tckg 109

NON-HAZARDOUS WASTE MANIFEST NO 131960 | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. Maverick ONA&E Gas Corp. | 4. ADDRESS 1001 N. Wall St. | 5. DATE 9/26/2019

PHONE (432) 682-2500 | CITY Midland | STATE TX | ZIP 79701 | 6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED: Non-Regulated, Non Hazardous Waste	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a.					
b.					
c. WT:					
d. 59640					

12. COMMENTS OR SPECIAL INSTRUCTIONS: MAVERICK ~~629 BATTERY~~ 647-629 Tank Battery

13. WASTE PROFILE NO.

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME JOE ONTIVEROS | PHONE NO. 575-887-4048 | 24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME | SIGNATURE | DATE

TRANSPORTERS

16. **TRANSPORTER (1)**

NAME: SAFETY ENVIRONMENTAL

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: Rebecca Pons

EMERGENCY PHONE: (575) 441-7980

17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME Jesus Andrade

SIGNATURE _____ DATE 9/26/2019

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME _____

SIGNATURE _____ DATE _____

DISPOSAL FACILITY

Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048

PERMIT NO. WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE 9/26/2019	TIME 1055

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Triple M

NON-HAZARDOUS WASTE MANIFEST NO 131961 | 1. PAGE ___ OF ___ | 2. TRAILER NO. # 101

GENERATOR

3. COMPANY NAME: Maverick Oil & Gas Corp. | 4. ADDRESS: 1001 W. Wall St. | 5. PICK-UP DATE: 9/26/2019

PHONE NO. (432) 682-2500 | CITY Midland | STATE TX | ZIP 79701 | 6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
a. Non-Regulated, Non Hazardous Waste					
b.					
c. WT.					
d. 41220					

12. COMMENTS OR SPECIAL INSTRUCTIONS: MAVERICK ~~628 BATTERY~~ 647-629 Tank Battery

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME JOE ONTIVEROS | PHONE NO. 575-887-4048 | 24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME | SIGNATURE | DATE

TRANSPORTERS

16. **TRANSPORTER (1)**

NAME: SAFETY ENVIRONMENTAL

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: Rebecca Pons

EMERGENCY PHONE: (575) 441-7980

17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME Manuel A. Mata

SIGNATURE _____ DATE 9/26/2019

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME _____

SIGNATURE _____ DATE _____

DISPOSAL FACILITY

Lea Land, LLC | ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM | PHONE: 575-887-4048

PERMIT NO. WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE | CELL NO. | DATE 9/26/2019 | TIME 1105

GENERATOR: COPIES 1 & 6 | DISPOSAL SITE: COPIES 2 & 3 | TRANSPORTERS: COPIES 4 & 5

COPY 1

Appendix E
Groundwater

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 09588		RA	ED	1	2		33	18S	28E	576976	3619384*	300		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

PLSS Search:

Township: 18S **Range:** 28E

***UTM location was derived from PLSS - see Help**

5/23/19 9:06 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER