Maverick Natural Resources Humble Yates Battery 2RP-5384 Closure Report Section 16, Township 18S, Range 28E Lea County, New Mexico

April 30, 2019



Prepared for:

Maverick Natural Resources PO Box 678 Andrews, TX

By:

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

TABLE OF CONTENTS

COMPANY CONTACTS	1
BACKGROUND	1
SURFACE AND GROUND WATER	1
WORK PERFORMED	2
CONCLUSIONS	3
FIGURES & APPENDICES	1
igure 1 – C-141	2
ppendix A – Surface and Groundwater	5
ppendix B – Site Map	6
ppendix C – Laboratory Analyses	9
ppendix D - Site Photograph Documentation	8
	COMPANY CONTACTS BACKGROUND SURFACE AND GROUND WATER WORK PERFORMED CONCLUSIONS FIGURES & APPENDICES Figure 1 – C-141 Appendix A – Surface and Groundwater Appendix B – Site Map Appendix B – Site Map Appendix C – Laboratory Analyses Appendix D - Site Photograph Documentation

I. Company Contacts

Representative	Company	Telephone	E-mail
Thomas Haigood	Maverick Natural 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. (SESI) was engaged by Maverick Natural Resources to perform site assessment of a release area at the Humble Yates Battery. The site is situated in Section 16, Township 18S, Range 28E.

According to the C-141: the cause of release was due to corrosion to the bottom of the crude oil storage tank spilling into the secondary containment. Approximately 10 bbl. of oil began to leak under the containment (berm) wall where the plastic liner appeared to have a breach. The fluid leached under the containment berm traversing approximately 150 yards before being discovered by the relief pumper while making his daily rounds. The impacted area is approximately 1ft. to 2 ft. wide by 100 yards in length (Figure 1).

III. Surface and Ground Water

According to the New Mexico Office of the State Engineer: there is no record of groundwater in the immediate vicinity of this location, however the well depth to water for this area is 300' bgs (Appendix A).

V. Work Performed

On January 08, 2019 SESI personnel met with personnel from Maverick Natural Resources in order to assess the release area. SESI field technician determined locations for advancing auger holes. Immediately south of the bermed area, auger hole one (1) was advanced to a depth of 10" bgs., whereby auger refusal was met. The spill area was photographed and mapped utilizing a handheld Juno 3B for accuracy (Appendix B). The area was flagged for New Mexico One Call clearance.

On January 10, 2019 SESI personnel revisited the site, together with equipment and personnel from Phoenix Construction. The interior of the bermed area has hand excavated and all impacted soil stockpiled for disposal. Equipment began removal and stockpiling of all impacted soil from pasture area. All impacted soil was stockpiled on a 30 mil. liner for future removal and disposal.

On January 11, 2019 SESI personnel returned to the site in order to complete hand excavation activity of the interior bermed area, and to conduction soil delineation. Five (5) sample points were designated in the pasture area, whereby samples were grabbed at surface and 1' bgs. intervals. Refusal was encountered at 1' bgs. A Test Trench was advanced to a depth of 3.5' bgs., to the south of the bermed area where the fluids had pooled. The stock piled soil was transported to R360 for disposal. All of the soil samples were properly packaged, preserved, and transported to Cardinal Laboratories for analyses of Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B), Chloride (Cl Method SM4500Cl-B), and Total Petroleum Hydrocarbons (TPH 8015M). Below is a tabular recap of the results for ease of reference (Appendix C).

Sample Point ID	BTEX	Chloride	ТРН	
-			GRO	DRO
SP 1 Surface	.908	<16.0	21.3	450
SP 1 @ 1ft	125	32.	1730	930
SP 2 Surface	537	<16.0	4490	10500
SP 3 Surface	66	336	817	7740
SP 3 @ 1ft	3.63	<16.0	83.1	1580
SP 4 Surface	564	336	5790	21400
SP4 @ 1ft	112	240	1340	6980
Test Trench (TT) 1 Surface	510	208	4850	34100
TT 1 @ 1ft	668	48	7050	26100
TT 1 @ 2ft	4.80	16.	84.9	920

On March 27, 2019 SESI personnel, together with personnel and equipment from Custom Welding of Hobbs returned to the site in order to complete remediation efforts of the test trench area located immediately south of the bermed area, on the pad where fluids had pooled. Due to the aforementioned soil screening levels; TPH was the constituency of concern. It was noted that there were a significant number of lines in this area that had not been previously marked by New Mexico One Call. A line finder was utilized to better determine any lines that might be subsurface. Equipment encountered a line in the test trench area that was "unmarked", and was not located with the line finder. The excavation was halted for safety reasons, furthermore no additional excavation of the West Sidewall was advanced. All impacted soils were stockpiled on a 30 mil. Liner for future removal. The impaired line was repaired. The excavated area was advanced to a depth of 5ft. bgs. The excavated area was fenced and flagged awaiting confirmation of soil analyses. All soil samples were properly packaged, preserved, and transported to Hall Laboratories for analyses of TPH (Total Petroleum Hydrocarbons) Method 8015M/D and 8015D respectively. For ease of reference the results have been recapped below.

Sample Point ID	Т	РН	
-	GRO	DRO	
East SW	ND	330	
North SW	43	1700	
South SW	51	1300	
West SW	300	6300	
Bottom	100	2300	
SP-1 @ 2ft	ND	220	
SP-2 @ 2ft	ND	940	
SP-3 @ 3ft	ND	45	
SP-4 @ 3ft	ND	34	
SP-5 @ 3ft	ND	160	

On April 04, 2019 the Remediation Plan-Work Plan was emailed to representatives of the NMOCD and NMSLO respectively. The representative for the NMSLO contacted the Environmental Coordinator with Safety and Environmental Solutions, Inc., regarding the seed mixture requirements for the pasture area, as well as desired soil screening levels for TPH. They requested that TPH levels in the pasture area be excavated to depths whereby TPH levels were <100 mg/kg., regardless of depth to water for the area.

On April 05, 2019, SESI personnel returned to the site, together with personnel and equipment from Custom Welding of Hobbs, NM. Sample points 1, 2, and 5 were located in the pasture area, and excavated further to the extent that field tests for TPH returned results of <100 mg/kg. All stockpiled soil was removed for disposal at Lea Landfill, and NMOCD approved facility. A total of 40 yards of impacted soil was disposed of on this date. The excavated areas were backfilled with like material and restored to grade. The pasture area was backfilled with topsoil and dunal material to support vegetation, and reseeded. All soil samples were packaged, properly preserved and transported to Hall Laboratories via Chain of Custody for analyses of Total Petroleum Hydrocarbons (TPH 8015M). Below is a tabular recap of the results for ease of reference.

Sample Point ID	BTEX	Т	РН
-		GRO	DRO
SP 1 West Wall	93.5	ND	19
SP 1 East Wall	ND	ND	26
SP 2 West Wall	ND	ND	ND
SP 2 East Wall	ND	ND	13
SP 5 West Wall	ND	ND	ND
SP 5 East Wall	ND	ND	ND

VI. Conclusions

Based on the number of lines and tanks inside the bermed area, it is requested that further remediation for the interior of the battery be deferred to such a point in time that the battery is decommissioned. The pad area, as well as the pasture area have been remediated in accordance with NMOCD and NMSLO soil screening guidelines (Appendix D). All pasture areas mapped in the site plan have been reseeded with the required seed mixture, in order to facilitate native vegetation. Based upon the aforementioned soil screening levels, number of lines, and depth to groundwater for the area; no further remediation effort is recommended at this time.

Remedial actions at this site have all been performed with the approval of, and in accordance with all New Mexico Oil Conservation Division (NMOCD) requirements. As a result, we respectfully submit this closure report for your consideration and approval.

VII. Figures & Appendices

Figure 1 – C-141 Appendix A – Groundwater Appendix B – Site Map Appendix C – Laboratory Analyses Appendix D – Site Photograph Documentation

Figure 1 C-141

Form C-141 Page 6 State of New Mexico Oil Conservation Division

Incident ID	2RP-5384
District RP	2
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photo must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office			
Laboratory analyses of final sampling (Note: appropriate OD	OC District office must be notified 2 days prior to final sampling)			
I Description of remediation activities				
1				
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: EHS Coordinator Recurs HSE Specieloct Signature: Date: 05/07/2019 email: Thomas.haigood @maverickresources.com Telephone: (432) 701-7802				
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible part remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.			
Closure Approved by:	Date:			
Printed Name:	Title:			

Appendix A Groundwater

	New Mexico Office of the State Engineer Water Column/Average Depth to Wate	r
(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	
BODN	Sub- $Q Q Q$ V	Water
<u>RA 09588</u>	$\begin{array}{cccc} \textbf{Code} & \textbf{basin} & \textbf{County} & \textbf{64} & \textbf{56} & \textbf{164} & \textbf{sec} & \textbf{188} & \textbf{Kng} & \textbf{X} & \textbf{Y} & \textbf{Depth weinDepth water C} \\ \textbf{RA} & \textbf{ED} & 1 & 2 & 33 & 18S & 28E & 576976 & 3619384* \bigcirc & 300 \end{array}$	olumn
	Average Depth to Water:	
	Minimum Depth:	
	Maximum Depth:	
Record Count: 1		
PLSS Search:		
Township: 18S	Range: 28E	
*UTM location was derived f	rom PLSS - see Help	
The data is furnished by the NMOSE accuracy, completeness, reliability, u	JSC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, esability, or suitability for any particular purpose of the data.	concerning the

4/2/19 1:32 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER Appendix B Site Plan-Map



.....

16



Test Trench

Sample Point 1

Sample Point 2

Sample Point 3

Sample Point 4

Sample Point 5

@2018 Google

Legend

- line 🕹
- Sample Point
- 🖉 Spill Area
- Unmarked live line

Appendix C Laboratory Analyses



January 17, 2019

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: MAV - 19-001

Enclosed are the results of analyses for samples received by the laboratory on 01/14/19 14:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 SURFACE (H900108-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	0.112	0.050	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	0.265	0.050	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	0.532	0.150	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	0.908	0.300	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.3	10.0	01/15/2019	ND	209	105	200	4.61	
DRO >C10-C28*	450	10.0	01/15/2019	ND	210	105	200	1.44	
EXT DRO >C28-C36	145	10.0	01/15/2019	ND					
Surrogate: 1-Chlorooctane	95.3	% 41-142							
Surrogate: 1-Chlorooctadecane	100 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 1' (H900108-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	20.5	1.00	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	41.7	1.00	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	62.9	3.00	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	125	6.00	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1730	100	01/15/2019	ND	209	105	200	4.61	
DRO >C10-C28*	9630	100	01/15/2019	ND	210	105	200	1.44	
EXT DRO >C28-C36	1350	100	01/15/2019	ND					
Surrogate: 1-Chlorooctane	217 %	% 41-142	2						
Surrogate: 1-Chlorooctadecane	307 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 SURFACE (H900108-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	23.8	2.00	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	166	2.00	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	146	2.00	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	201	6.00	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	537	12.0	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4490	100	01/15/2019	ND	179	89.3	200	7.45	QM-07
DRO >C10-C28*	10500	100	01/15/2019	ND	187	93.6	200	8.14	QM-07
EXT DRO >C28-C36	1370	100	01/15/2019	ND					
Surrogate: 1-Chlorooctane	260 9	6 41-142	2						
Surrogate: 1-Chlorooctadecane	346 %	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TT 1 SURFACE (H900108-04)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.8	2.00	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	121	2.00	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	154	2.00	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	216	6.00	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	510	12.0	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	73.3-12	9						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4850	100	01/15/2019	ND	179	89.3	200	7.45	
DRO >C10-C28*	34100	100	01/15/2019	ND	187	93.6	200	8.14	
EXT DRO >C28-C36	5280	100	01/15/2019	ND					
Surrogate: 1-Chlorooctane	460	% 41-142	,						
Surrogate: 1-Chlorooctadecane	985	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TT 1 1' (H900108-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	44.4	5.00	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	197	5.00	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	181	5.00	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	245	15.0	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	668	30.0	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7050	100	01/15/2019	ND	179	89.3	200	7.45	
DRO >C10-C28*	26100	100	01/15/2019	ND	187	93.6	200	8.14	
EXT DRO >C28-C36	4090	100	01/15/2019	ND					
Surrogate: 1-Chlorooctane	450	% 41-142	?						
Surrogate: 1-Chlorooctadecane	766	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: TT 1 2' (H900108-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.133	0.050	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	0.825	0.050	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	1.39	0.050	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	2.44	0.150	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	4.80	0.300	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	84.9	10.0	01/15/2019	ND	179	89.3	200	7.45	
DRO >C10-C28*	920	10.0	01/15/2019	ND	187	93.6	200	8.14	
EXT DRO >C28-C36	147	10.0	01/15/2019	ND					
Surrogate: 1-Chlorooctane	81.3 %	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.6%	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 SURFACE (H900108-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	9.45	0.500	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	20.6	0.500	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	36.0	1.50	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	66.0	3.00	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	817	50.0	01/15/2019	ND	179	89.3	200	7.45	
DRO >C10-C28*	7740	50.0	01/15/2019	ND	187	93.6	200	8.14	
EXT DRO >C28-C36	1290	50.0	01/15/2019	ND					
Surrogate: 1-Chlorooctane	171 %	% 41-142	2						
Surrogate: 1-Chlorooctadecane	298 %	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/11/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 1' (H900108-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	0.264	0.050	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	1.12	0.050	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	2.25	0.150	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	3.63	0.300	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	83.1	10.0	01/15/2019	ND	179	89.3	200	7.45	
DRO >C10-C28*	1580	10.0	01/15/2019	ND	187	93.6	200	8.14	
EXT DRO >C28-C36	283	10.0	01/15/2019	ND					
Surrogate: 1-Chlorooctane	98.1 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	134 %	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/14/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 4 SURFACE (H900108-09)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.75	2.00	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	148	2.00	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	170	2.00	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	236	6.00	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	564	12.0	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5790	100	01/15/2019	ND	179	89.3	200	7.45	
DRO >C10-C28*	21400	100	01/15/2019	ND	187	93.6	200	8.14	
EXT DRO >C28-C36	3360	100	01/15/2019	ND					
Surrogate: 1-Chlorooctane	381	% 41-142	,						
Surrogate: 1-Chlorooctadecane	670	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/14/2019	Sampling Date:	01/14/2019
Reported:	01/17/2019	Sampling Type:	Soil
Project Name:	MAV - 19-001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 4 1' (H900108-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.722	0.500	01/16/2019	ND	1.93	96.7	2.00	2.08	
Toluene*	22.5	0.500	01/16/2019	ND	2.13	107	2.00	2.51	
Ethylbenzene*	36.3	0.500	01/16/2019	ND	2.05	103	2.00	6.12	
Total Xylenes*	52.8	1.50	01/16/2019	ND	5.85	97.4	6.00	4.69	
Total BTEX	112	3.00	01/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/16/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1340	50.0	01/15/2019	ND	179	89.3	200	7.45	
DRO >C10-C28*	6980	50.0	01/15/2019	ND	187	93.6	200	8.14	
EXT DRO >C28-C36	1190	50.0	01/15/2019	ND					
Surrogate: 1-Chlorooctane	179 %	% 41-142	2						
Surrogate: 1-Chlorooctadecane	281 %	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 8824 (575) 393-2326 FAX (575) 393-2476	40			DO, IOFI
Company Name: Safety and Environmental So	olutions	BJELTO		ANALYSIS REQUEST
Project Manager: Bob Allen		.0. #:		
Address: 703 East Clinton, PO Box 1613	0	ompany: Same		
City: Hobbs State: NM ;	Zip: 88240 A	ttn:		
Phone #: 575 397-0510 Fax #: 575 3!	93-4388 A	ddress:		
Project #: NA/- 19- CO Project Owner:	0	ity:	2	
Project Name:	S	tate: Zip:	+`	
Project Location:	G	hone #:	ĒΧ	
Sampler Name: JOCKIE Zaragozit	4	ax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPL		
	;)OMP. RS IER R		<u>801</u>	
Lab I.D. Sample I.D.	RAB OR (C DNTAINER DUNDWAT STEWATEI L DGE	D/BASE: / COOL HER :	PH BTEX hLor	
1900108	(G)F # C(GR(WA: SOI OIL SLU		TIME / 44	
- ut unitice		1-11	N X X V	
JATU TI Sugar		_	10201	
STT11 FOOT			1030/	
6 1T 1 2 F00T			1106	
1 SP3 Surface			10061	
8 SP3 FOOT		,	1230	
9 SP4 Surface	, <i>N</i>	1 1-1A	1000 1	
10 SP4 FOOT		XI 1-14	1030XXXX	
PLEASE NOTE: Liability and Damages, Cardinal's fiability and client's exclusive remedy for an analyses. All claims including those for negligence and any other cause whatsoever shall be de service. In no event shall Cardinal be fiable for incidental or consequental damages, including y	y claim arising whether based in contract or semed waived unless made in writing and re- without limitation, business interruptions, loss	tort, shall ⁴ be limited to the amount pa ceived by Cardinal within 30 days aft s of use, or loss of profits incurred by	id by the client for the er completion of the applicable client, its subsidiaries,	
The second secon	Received By:	ased upon any of the above stated re	Phone Result: Ves D-No	Add'l Phone #:
acherand The	Munara &	Udat 10	REMARKS:	Add'l Fax #:
Retimquished By: JO Date: Time:	Received By:	J	÷	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: 3.50 #	497 Pres Ves	A Co L	, n.	

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Date Reported:

Hall	Environmental	Analysis	Laboratory, Inc.	
------	---------------	----------	------------------	--

CLIENT: Project:	Safety & Environmental Solution Humble Yates Battery	ons	Clie Co	nt Sample II Illection Dat	D: E- e:3/2	SW 27/2019 3:00:00 PM	
Lab ID:	1903E22-001	Matrix: SOIL	R	eceived Dat	e: 3/2	29/2019 8:40:00 AM	
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 8015M/D: DIESEL RANGE	E ORGANICS				Analyst	: Irm
Diesel R	ange Organics (DRO)	330	9.9	mg/Kg	1	4/1/2019 9:36:05 AM	43976
Motor Oi	il Range Organics (MRO)	360	49	mg/Kg	1	4/1/2019 9:36:05 AM	43976
Surr: I	DNOP	90.5	70-130	%Rec	1	4/1/2019 9:36:05 AM	43976
EPA MET	THOD 8015D: GASOLINE RANG	E				Analyst	RAA
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	4/1/2019 1:10:44 PM	43962
Surr: I	BFB	104	73.8-119	%Rec	1	4/1/2019 1:10:44 PM	43962

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

Н **Qualifiers:**

S

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Page 1 of 0

Date Reported:

Hall	Environmental	Analysis	Laboratory, Inc.
------	---------------	----------	------------------

CLIENT:	CLIENT: Safety & Environmental Solutions		Client Sample ID: N-SW					
Project:	Humble Yates Battery		(Collec	tion Dat	e: 3/2	27/2019 3:00:00 PM	
Lab ID:	1903E22-002	Matrix: SOIL		Recei	ived Dat	e: 3/2	29/2019 8:40:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	: Irm
Diesel R	ange Organics (DRO)	1700	100		mg/Kg	10	3/30/2019 8:56:18 PM	43976
Motor Oi	I Range Organics (MRO)	890	510		mg/Kg	10	3/30/2019 8:56:18 PM	43976
Surr: [ONOP	0	70-130	S	%Rec	10	3/30/2019 8:56:18 PM	43976
EPA MET	HOD 8015D: GASOLINE RAI	NGE					Analyst	RAA
Gasoline	Range Organics (GRO)	43	25		mg/Kg	5	4/1/2019 1:34:09 PM	43962
Surr: F	3FB	154	73.8-119	S	%Rec	5	4/1/2019 1:34:09 PM	43962

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

Н **Qualifiers:**

S

Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

ND Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

Hall Environmental	Analysis Laboratory,	Inc.				Date Reported:		
CLIENT: Safety & Environme	ental Solutions	Cl	ient S	ample II	D: S-S	SW		
Project: Humble Yates Batte	ry	(Collection Date: 3/27/2019 3:05:00 PM					
Lab ID: 1903E22-003	Matrix: SOIL		Recei	ved Dat	e: 3/2	29/2019 8:40:00 AM		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 8015M/D: DIES	SEL RANGE ORGANICS					Analyst	: Irm	
Diesel Range Organics (DRO)	1300	100		mg/Kg	10	3/30/2019 9:20:23 PM	43976	
Motor Oil Range Organics (MRC) 640	500		mg/Kg	10	3/30/2019 9:20:23 PM	43976	
Surr: DNOP	0	70-130	S	%Rec	10	3/30/2019 9:20:23 PM	43976	
EPA METHOD 8015D: GASO	LINE RANGE					Analyst	RAA	
Gasoline Range Organics (GRO) 51	47		mg/Kg	10	4/1/2019 1:57:28 PM	43962	
Surr: BFB	136	73.8-119	S	%Rec	10	4/1/2019 1:57:28 PM	43962	

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

Qualifiers: Н

S

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix RL Reporting Detection Limit

Sample container temperature is out of limit as specified at testcode W

Date Reported:

Hall	Environmental	Analysis	Laboratory,	Inc.
------	---------------	----------	-------------	------

CLIENT:	CLIENT: Safety & Environmental Solutions			Client Sample ID: W-SW								
Project:	Humble Yates Battery	Collection Date: 3/27/2019 3:10:00 PM										
Lab ID:	1903E22-004	Matrix: SOIL	OIL Received Date: 3/29/2019 8:40:00 AM									
Analyses		Result	RL Qual Units DF Date Analyze					l Batch				
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	Irm				
Diesel R	ange Organics (DRO)	6300	100		mg/Kg	10	3/30/2019 9:44:30 PM	43976				
Motor Oi	l Range Organics (MRO)	2800	500		mg/Kg	10	3/30/2019 9:44:30 PM	43976				
Surr: [ONOP	0	70-130	S	%Rec	10	3/30/2019 9:44:30 PM	43976				
EPA MET	HOD 8015D: GASOLINE RAN	GE					Analyst	RAA				
Gasoline	Range Organics (GRO)	300	48		mg/Kg	10	4/1/2019 2:20:52 PM	43962				
Surr: E	3FB	264	73.8-119	S	%Rec	10	4/1/2019 2:20:52 PM	43962				

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

Н **Qualifiers:**

S

Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

ND Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	LIENT: Safety & Environmental Solutions				Client Sample ID: Bottom						
Project:	Humble Yates Battery		Collection Date: 3/27/2019 3:20:00 PM								
Lab ID:	1903E22-005	Matrix: SOIL	Matrix: SOIL Received Date: 3/29/2019 8:40:00 AN								
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA ME	THOD 8015M/D: DIESEL RAI	NGE ORGANICS					Analyst	: Irm			
Diesel R	ange Organics (DRO)	2300	100		mg/Kg	10	3/30/2019 10:56:29 PM	43976			
Motor O	il Range Organics (MRO)	1100	500		mg/Kg	10	3/30/2019 10:56:29 PM	43976			
Surr:	DNOP	0	70-130	S	%Rec	10	3/30/2019 10:56:29 PM	43976			
EPA ME	THOD 8015D: GASOLINE RA	NGE					Analyst	RAA			
Gasoline	e Range Organics (GRO)	100	47		mg/Kg	10	4/1/2019 2:44:18 PM	43962			
Surr:	BFB	163	73.8-119	S	%Rec	10	4/1/2019 2:44:18 PM	43962			

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

Qualifiers: H

S

 H
 Holding times for preparation or analysis exceeded

 PQL
 Practical Quanitative Limit

ND Not Detected at the Reporting Limit

Practical Quanitative Limit % Recovery outside of range due to dilution or matrix RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

Hall Er	nvironmental Analys	Date Reported:								
CLIENT:	Safety & Environmental Solu	utions	Cl	Client Sample ID: SP-1 @ 2 ft.						
Project:	Humble Yates Battery	Collection Date: 3/27/2019 4:00:00 PM								
Lab ID:	1903E22-006	Matrix: SOIL	Received Date: 3/29/2019 8:40:00 AM							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	ł	Batch	
EPA MET	HOD 8015M/D: DIESEL RAN	IGE ORGANICS					A	Analyst:	Irm	
Diesel R	9.4		mg/Kg	1	4/1/2019 11:12:	52 AM	43976			

EPA METHOD 8015M/D: DIESEL RANGE ORG	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: Irm							
Diesel Range Organics (DRO)	220	9.4	mg/Kg	1	4/1/2019 11:12:52 AM	43976		
Motor Oil Range Organics (MRO)	150	47	mg/Kg	1	4/1/2019 11:12:52 AM	43976		
Surr: DNOP	119	70-130	%Rec	1	4/1/2019 11:12:52 AM	43976		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/1/2019 3:07:44 PM	43962		
Surr: BFB	95.0	73.8-119	%Rec	1	4/1/2019 3:07:44 PM	43962		

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

Qualifiers:

Holding times for preparation or analysis exceeded Н PQL Practical Quanitative Limit

ND Not Detected at the Reporting Limit

W Sample container temperature is out of limit as specified at testcode

% Recovery outside of range due to dilution or matrix S

RL Reporting Detection Limit

Hall E	nvironmental Analysis	s Laboratory, Inc.	Date Reported:						
CLIENT:	Safety & Environmental Solution	ons	Client Sample I	D: SP-2 @ 2 ft.					
Project:	Humble Yates Battery		Collection Dat	te: 3/27/2019 4:02:00 PM					
Lab ID:	1903E22-007	Matrix: SOIL	Received Date: 3/29/2019 8:40:00 AM						
Analyses		Result	RL Qual Units	DF Date Analyzed	Batch				
EPA MET	THOD 8015M/D: DIESEL RANG		Anal	yst: Irm					

Diesel Range Organics (DRO) 940 9.9 mg/Kg 1 4/1/2019 11:37:01 AM 43976 Motor Oil Range Organics (MRO) 510 50 mg/Kg 1 4/1/2019 11:37:01 AM 43976 Surr: DNOP 43976 92.5 70-130 %Rec 1 4/1/2019 11:37:01 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) 4/1/2019 3:31:19 PM ND 4.7 mg/Kg 1 43962 Surr: BFB 73.8-119 43962 92.0 %Rec 4/1/2019 3:31:19 PM 1

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

Qualifiers:

Н Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

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

S % Recovery outside of range due to dilution or matrix

3/31/2019 12:08:37 AM 43976

4/1/2019 6:17:02 PM

4/1/2019 6:17:02 PM

Analyst: RAA

43962

43962

Hall E	nvironmental Analys	sis Laboratory, Inc.	• Date Reported:						
CLIENT:	Safety & Environmental Solu	utions	Client Sample ID: SP-3 @ 3 ft.						
Project:	Humble Yates Battery		Collec	tion Dat	e: 3/	27/2019 4:05:00 PM			
Lab ID:	1903E22-008	Matrix: SOIL Received Date: 3/29/2019 8:40:00 AM							
Analyses		Result	RL Qua	Units	DF	Date Analyzed	Batch		
EPA MET	THOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	: Irm		
Diesel R	ange Organics (DRO)	45	9.8	mg/Kg	1	3/31/2019 12:08:37 AM	43976		
Motor Oi	I Range Organics (MRO)	ND	49	mg/Kg	1	3/31/2019 12:08:37 AM	43976		

84.4

ND

94.3

70-130

73.8-119

4.9

%Rec

mg/Kg

%Rec

1

1

1

11 77 -.

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

Н **Qualifiers:**

S

Surr: DNOP

Surr: BFB

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

ND Not Detected at the Reporting Limit

- % Recovery outside of range due to dilution or matrix
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified at testcode W

4/1/2019 6:40:37 PM

4/1/2019 6:40:37 PM

Analyst: RAA

43962

43962

1

1

mg/Kg

%Rec

Hall Envir	onmental Analy	ac.	Date Reported:							
CLIENT: Safe	ty & Environmental Sol	utions	Cli	Client Sample ID: SP-4 @ 3 ft.						
Project: Hum	ble Yates Battery		C	Collection Date: 3/27/2019 4:10:00 PM						
Lab ID: 1903	3E22-009	Matrix: SOIL	Iatrix: SOILReceived Date: 3/29/2019 8:40:00 AM							
Analyses	Result	RL	Qual Unit	s Dl	F Date Analyzed	Batch				
EPA METHOD	8015M/D: DIESEL RAM	NGE ORGANICS				Analy	/st: Irm			
Diesel Range C	Organics (DRO)	34	10	mg/ł	(g 1	3/31/2019 12:32:34 A	M 43976			
Motor Oil Rang	je Organics (MRO) ND 50 mg/Kg 1 3/31/2019 12:32:34 AM 4397					M 43976				
Surr: DNOP		125	70-130	%Re	c 1	3/31/2019 12:32:34 A	M 43976			

ND

90.2

4.7

73.8-119

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

Qualifiers:

S

Н Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

Surr: BFB

ND Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

RL Reporting Detection Limit

Sample container temperature is out of limit as specified at testcode W

Hall Eı	nvironmental Analysi	is Laboratory, Inc.	Date Reported:					
CLIENT:	Safety & Environmental Solut	ions	Client Sample I	D: SP-5 @ 3 ft.				
Project:	Humble Yates Battery		Collection Dat	e: 3/27/2019 4:15:00 PM	M			
Lab ID:	1903E22-010	Matrix: SOIL	Received Dat	e: 3/29/2019 8:40:00 Al	М			
Analyses		Result	RL Qual Units	DF Date Analyzed	Ba			
EPA MET	HOD 8015M/D: DIESEL RANG	GE ORGANICS		Ana	alvst: Irr			

Result	RL (Qual Units	DF	Date Analyzed	Batch
GANICS				Analys	t: Irm
160	10	mg/Kg	1	3/31/2019 12:56:33 AM	1 43976
140	50	mg/Kg	1	3/31/2019 12:56:33 AM	1 43976
87.3	70-130	%Rec	1	3/31/2019 12:56:33 AM	1 43976
				Analys	t: RAA
ND	4.9	mg/Kg	1	4/1/2019 7:04:15 PM	43962
91.5	73.8-119	%Rec	1	4/1/2019 7:04:15 PM	43962
	Result 5ANICS 160 140 87.3 ND 91.5	Result RL C GANICS 160 10 140 50 87.3 70-130 ND 4.9 91.5 73.8-119	Result RL Qual Units GANICS 10 mg/Kg 160 10 mg/Kg 140 50 mg/Kg 87.3 70-130 %Rec ND 4.9 mg/Kg 91.5 73.8-119 %Rec	Result RL Qual Units DF SANICS 160 10 mg/Kg 1 140 50 mg/Kg 1 87.3 70-130 %Rec 1 ND 4.9 mg/Kg 1 91.5 73.8-119 %Rec 1	Result RL Qual Units DF Date Analyzed SANICS Analysi 160 10 mg/Kg 1 3/31/2019 12:56:33 AM 140 50 mg/Kg 1 3/31/2019 12:56:33 AM 87.3 70-130 %Rec 1 3/31/2019 12:56:33 AM ND 4.9 mg/Kg 1 4/1/2019 7:04:15 PM 91.5 73.8-119 %Rec 1 4/1/2019 7:04:15 PM

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

Holding times for preparation or analysis exceeded Н **Qualifiers:**

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix S



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

April 15, 2019

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

RE: Maverick Humble Yates Batt

OrderNo.: 1904494

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/9/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 4/15/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-1 West Wall **Project:** Maverick Humble Yates Batt Collection Date: 4/5/2019 8:30:00 AM Lab ID: 1904494-001 Matrix: SOIL Received Date: 4/9/2019 9:15:00 AM Analyses Result **RL Oual** Units **DF** Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** 19 9.4 mg/Kg 1 4/13/2019 1:01:40 AM 44276 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 4/13/2019 1:01:40 AM 44276 Surr: DNOP %Rec 4/13/2019 1:01:40 AM 108 70-130 1 44276 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/13/2019 10:16:16 PM 44253 4.8 mg/Kg 1 4/13/2019 10:16:16 PM 44253 Surr: BFB 93.4 73.8-119 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: **NSB** Benzene ND 0.024 mg/Kg 4/13/2019 10:16:16 PM 44253 1 4/13/2019 10:16:16 PM 44253 Toluene ND 0.048 mg/Kg 1 Ethvlbenzene ND 0.048 mg/Kg 1 4/13/2019 10:16:16 PM 44253 Xylenes, Total ND 0.095 mg/Kg 1 4/13/2019 10:16:16 PM 44253 Surr: 4-Bromofluorobenzene 93.5 80-120 %Rec 1 4/13/2019 10:16:16 PM 44253

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

Qualifiers:

Е

ND Not Detected at the Reporting Limit

Value above quantitation range

- RL Reporting Detection Limit
 - ng Detection Limit
- H Holding times for preparation or analysis exceeded POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

W Sample container temperature is out of limit as specified at testcode

Date Reported: 4/15/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-1 East Wall **Project:** Maverick Humble Yates Batt Collection Date: 4/5/2019 8:45:00 AM Lab ID: 1904494-002 Matrix: SOIL Received Date: 4/9/2019 9:15:00 AM Analyses Result **RL Oual** Units **DF** Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** 26 9.7 mg/Kg 1 4/13/2019 1:25:45 AM 44276 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/13/2019 1:25:45 AM 44276 Surr: DNOP %Rec 4/13/2019 1:25:45 AM 104 70-130 1 44276 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/13/2019 10:39:39 PM 44253 5.0 mg/Kg 1 Surr: BFB 91.0 73.8-119 %Rec 1 4/13/2019 10:39:39 PM 44253 **EPA METHOD 8021B: VOLATILES** Analyst: **NSB** Benzene ND 0.025 mg/Kg 4/13/2019 10:39:39 PM 44253 1 Toluene ND 0.050 4/13/2019 10:39:39 PM 44253 mg/Kg 1 Ethvlbenzene ND 0.050 mg/Kg 1 4/13/2019 10:39:39 PM 44253 Xylenes, Total ND 0.099 mg/Kg 1 4/13/2019 10:39:39 PM 44253 Surr: 4-Bromofluorobenzene 90.6 80-120 %Rec 1 4/13/2019 10:39:39 PM 44253

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

Qualifiers:

Е

- Value above quantitation range ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- Н Holding times for preparation or analysis exceeded PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

W Sample container temperature is out of limit as specified at testcode

Page 2 of 10

Date Reported: 4/15/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-2 West Wall **Project:** Maverick Humble Yates Batt Collection Date: 4/5/2019 9:20:00 AM Lab ID: 1904494-003 Matrix: SOIL Received Date: 4/9/2019 9:15:00 AM Analyses Result **RL Oual** Units **DF** Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** 12 9.8 mg/Kg 1 4/13/2019 1:49:54 AM 44276 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/13/2019 1:49:54 AM 44276 Surr: DNOP %Rec 113 70-130 1 4/13/2019 1:49:54 AM 44276 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/13/2019 11:03:04 PM 44253 4.7 mg/Kg 1 4/13/2019 11:03:04 PM 44253 Surr: BFB 90.4 73.8-119 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: **NSB** Benzene ND 0.023 mg/Kg 4/13/2019 11:03:04 PM 44253 1 Toluene ND 4/13/2019 11:03:04 PM 44253 0.047 mg/Kg 1 Ethvlbenzene ND 0.047 mg/Kg 1 4/13/2019 11:03:04 PM 44253 Xylenes, Total ND 0.094 mg/Kg 1 4/13/2019 11:03:04 PM 44253 Surr: 4-Bromofluorobenzene 90.7 80-120 %Rec 1 4/13/2019 11:03:04 PM 44253

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

Qualifiers:

Е

- Value above quantitation range ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit W

- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

Н

Holding times for preparation or analysis exceeded

Sample container temperature is out of limit as specified at testcode

- Page 3 of 10

Date Reported: 4/15/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-2 East Wall **Project:** Maverick Humble Yates Batt Collection Date: 4/5/2019 9:45:00 AM Lab ID: 1904494-004 Matrix: SOIL Received Date: 4/9/2019 9:15:00 AM Analyses Result **RL Oual** Units **DF** Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** 13 9.9 mg/Kg 1 4/13/2019 2:13:51 AM 44276 Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/13/2019 2:13:51 AM 44276 Surr: DNOP %Rec 105 70-130 1 4/13/2019 2:13:51 AM 44276 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/13/2019 11:26:26 PM 44253 4.6 mg/Kg 1 Surr: BFB 89.0 73.8-119 %Rec 1 4/13/2019 11:26:26 PM 44253 **EPA METHOD 8021B: VOLATILES** Analyst: **NSB** Benzene ND 0.023 mg/Kg 4/13/2019 11:26:26 PM 44253 1 Toluene ND 4/13/2019 11:26:26 PM 44253 0.046 mg/Kg 1 Ethvlbenzene ND 0.046 mg/Kg 1 4/13/2019 11:26:26 PM 44253 Xylenes, Total ND 0.093 mg/Kg 1 4/13/2019 11:26:26 PM 44253 Surr: 4-Bromofluorobenzene 89.0 80-120 %Rec 1 4/13/2019 11:26:26 PM 44253

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

Qualifiers:

Е

- Value above quantitation range ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

- Н PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

W Sample container temperature is out of limit as specified at testcode

Page 4 of 10

Holding times for preparation or analysis exceeded

Date Reported: 4/15/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-5 West Wall **Project:** Maverick Humble Yates Batt Collection Date: 4/5/2019 10:15:00 AM Lab ID: 1904494-005 Matrix: SOIL Received Date: 4/9/2019 9:15:00 AM Analyses Result **RL Oual** Units **DF** Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** ND 9.6 mg/Kg 1 4/13/2019 2:37:54 AM 44276 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/13/2019 2:37:54 AM 44276 Surr: DNOP %Rec 104 70-130 1 4/13/2019 2:37:54 AM 44276 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/14/2019 10:29:45 AM 44270 4.8 mg/Kg 1 Surr: BFB 93.4 73.8-119 %Rec 1 4/14/2019 10:29:45 AM 44270 **EPA METHOD 8021B: VOLATILES** Analyst: **NSB** Benzene ND 0.024 mg/Kg 4/14/2019 10:29:45 AM 44270 1 4/14/2019 10:29:45 AM 44270 Toluene ND 0.048 mg/Kg 1 Ethvlbenzene ND 0.048 mg/Kg 1 4/14/2019 10:29:45 AM 44270 ND Xylenes, Total 0.096 mg/Kg 1 4/14/2019 10:29:45 AM 44270 Surr: 4-Bromofluorobenzene 94.9 80-120 %Rec 1 4/14/2019 10:29:45 AM 44270

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

Qualifiers: E

ND Not Detected at the Reporting Limit

Value above quantitation range

- RL Reporting Detection Limit
 - porting Detection Limit
- H Holding times for preparation or analysis exceeded POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

W Sample container temperature is out of limit as specified at testcode

Page 5 of 10

Date Reported: 4/15/2019

4/14/2019 10:53:08 AM 44270

4/14/2019 10:53:08 AM 44270

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-5 East Wall **Project:** Maverick Humble Yates Batt Collection Date: 4/5/2019 10:30:00 AM Lab ID: 1904494-006 Matrix: SOIL Received Date: 4/9/2019 9:15:00 AM Analyses Result **RL Oual** Units **DF** Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** ND 9.6 mg/Kg 1 4/13/2019 3:02:01 AM 44276 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/13/2019 3:02:01 AM 44276 Surr: DNOP %Rec 106 70-130 1 4/13/2019 3:02:01 AM 44276 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/14/2019 10:53:08 AM 44270 4.7 mg/Kg 1 4/14/2019 10:53:08 AM 44270 Surr: BFB 93.0 73.8-119 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: **NSB** Benzene ND 0.023 mg/Kg 4/14/2019 10:53:08 AM 44270 1 4/14/2019 10:53:08 AM 44270 Toluene ND 0.047 mg/Kg 1 Ethvlbenzene ND 0.047 mg/Kg 1 4/14/2019 10:53:08 AM 44270

ND

94.3

0.094

80-120

mg/Kg

%Rec

1

1

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

Qualifiers:

Е

Xylenes, Total

Surr: 4-Bromofluorobenzene

ND Not Detected at the Reporting Limit

Value above quantitation range

- RL Reporting Detection Limit W Sample container temperatur
 - Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

Page 6 of 10

WO#:	1904494

15-Apr-19

Client:	Safety &	Environme	ental Sc	olutions							
Project:	Maveric	k Humble Y	ates Ba	att							
Sample ID:	MB-44276	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	PBS	Batch	n ID: 442	276	F	RunNo: 5	9065				
Prep Date:	4/10/2019	Analysis D	ate: 4/	11/2019	5	SeqNo: 1	988005	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		109	70	130			
Sample ID:	LCS-44276	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	D: 44	276	F	RunNo: 5	9065				
Prep Date:	4/10/2019	Analysis D	ate: 4/	11/2019	S	SeqNo: 1	988539	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	43	10	50.00	0	85.4	63.9	124			
Surr: DNOP		4.7		5.000		94.5	70	130			
Sample ID:	MB-44296	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 442	296	F	RunNo: 5	9115				
Prep Date:	4/11/2019	Analysis D	ate: 4/	12/2019	S	SeqNo: 1	990924	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		105	70	130			
Sample ID:	LCS-44296	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	D: 44	296	F	RunNo: 5 9	9115				
Prep Date:	4/11/2019	Analysis D	ate: 4/	12/2019	5	SeqNo: 1	990925	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.6		5.000		92.9	70	130			

Qualifiers:

E Value above quantitation range

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

WO#:	1904494

15-Apr-19

Client:	Safety & I	Environme	ental So	olutions							
Project:	Maverick	Humble Y	ates B	att							
Sample ID: N	1B-44253	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: P	BS	Batch	D: 44	253	F	RunNo: 5	9130				
Prep Date:	4/10/2019	Analysis D	ate: 4/	13/2019	S	SeqNo: 1	990394	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (Surr: BFB	Organics (GRO)	ND 910	5.0	1000		90.5	73.8	119			
Sample ID: L	CS-44253	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: L	CSS	Batch	n ID: 44	253	F	RunNo: 5	9130				
Prep Date:	4/10/2019	Analysis D	ate: 4/	13/2019	S	SeqNo: 1	990395	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (Surr: BFB	Organics (GRO)	26 1000	5.0	25.00 1000	0	104 103	80.1 73.8	123 119			
Sample ID: N	IB-44270	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: P	BS	Batch	n ID: 44	270	F	RunNo: 5	9130				
Prep Date:	4/10/2019	Analysis D	ate: 4/	13/2019	S	SeqNo: 1	990417	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (Surr: BFB	Organics (GRO)	ND 880	5.0	1000		87.7	73.8	119			
Sample ID: L	CS-44270	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: L	CSS	Batch	n ID: 44	270	F	RunNo: 5	9130				
Prep Date:	4/10/2019	Analysis D	ate: 4/	14/2019	5	SeqNo: 1	990418	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	24	5.0	25.00	0	94.2	80.1	123			
Surr: BFB		980		1000		97.7	73.8	119			
Sample ID: N	IB-44274	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: P	BS	Batch	n ID: 44	274	F	RunNo: 5	9134				
Prep Date:	4/10/2019	Analysis D	ate: 4/	14/2019	S	SeqNo: 1	990660	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		940		1000		93.7	73.8	119			
Sample ID: L	CS-44274	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID: L	CSS	Batch	n ID: 44	274	F	RunNo: 5	9134				
Prep Date:	4/10/2019	Analysis D	ate: 4/	14/2019	S	SeqNo: 1	990661	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		107	73.8	119			

Qualifiers:

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

PQL Practical Quanitative Limit

s % Recovery outside of range due to dilution or matrix

Page 8 of 10

WO#:	1904494

15-Apr-19

Client:	Safety	& Environm	ental So	olutions							
Project:	Maver	ick Humble	Yates Ba	att							
Sample ID:	MB-44253	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Vola	iles		
Client ID:	PBS	Batc	h ID: 442	253	F	RunNo: 59	9130				
Prep Date:	4/10/2019	Analysis E	Date: 4/	13/2019	S	SeqNo: 19	990440	Units: mg/k	(g		
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-Brom	nofluorobenzene	0.90		1.000		90.4	80	120			
Sample ID:	LCS-44253	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batc	h ID: 442	253	F	RunNo: 59	9130				
Prep Date:	4/10/2019	Analysis D	Date: 4/	13/2019	5	SeqNo: 19	990441	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.025	1.000	0	92.8	80	120			
Toluene		0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene		0.96	0.050	1.000	0	96.5	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Brom	nofluorobenzene	0.96		1.000		95.5	80	120			
Sample ID:	MB-44270	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 442	270	F	RunNo: 5 9	9130				
Prep Date:	4/10/2019	Analysis [Date: 4/	13/2019	S	SeqNo: 19	990477	Units: mg/k	g		
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-Brom	nofluorobenzene	0.89		1.000		88.6	80	120			
Sample ID:	LCS-44270	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batc	h ID: 442	270	F	RunNo: 59	9130				
Prep Date:	4/10/2019	Analysis E	Date: 4/	14/2019	S	SeqNo: 19	990499	Units: mg/k	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	91.8	80	120			
Toluene		0.96	0.050	1.000	0	95.5	80	120			
Ethylbenzene		0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total		2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Brom	nofluorobenzene	0.91		1.000		90.7	80	120			

Qualifiers:

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

PQL Practical Quanitative Limit s

% Recovery outside of range due to dilution or matrix

WO#:	1904494

15-Apr-19	,
-----------	---

Client: Safety Project: Maveri	& Environmental Solutions ck Humble Yates Batt						
Sample ID: MB-44274	SampType: MBLK	TestCode: EPA Method					
Client ID: PBS	Batch ID: 44274	RunNo: 59134					
Prep Date: 4/10/2019	Analysis Date: 4/14/2019	SeqNo: 1990691	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Surr: 4-Bromofluorobenzene	0.93 1.000	92.6 80	120				
Sample ID: LCS-44274	SampType: LCS	TestCode: EPA Method					
Client ID: LCSS	Batch ID: 44274	RunNo: 59134					
Prep Date: 4/10/2019	Analysis Date: 4/14/2019	SeqNo: 1990692	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Surr: 4-Bromofluorobenzene	0.93 1.000	92.5 80	120				

Qualifiers:

- E Value above quantitation range
- ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

Page 10 of 10

HALL			На	ll Environment	al Analysis La	boratory								
ENVI	RONMENT	AL			4901 Ha									
ANAL	LYSIS		TE	Al L: 505-345-39	lbuquerque, N 75 FAX: 505-	M 87109 845-4107	Sample Log-In Check List							
	DRATORY			Website: www.	hallenvironme	ntal.com								
Client Name:	Safety En	/ Solutions	Work	Order Numbe	er: 1904494			RcptNo	: 1					
Received By:	Desiree I	Dominguez	4/9/201	9 9:15:00 AN	1	T	2							
Completed By:	Erin Mele	endrez	4/9/201	9 11:20:03 A	м	V.	MA							
Reviewed By:	YG	4/9/11												
IR D	AD 4/9	119												
Chain of Cu	stody													
1. Is Chain of	Custody com	olete?			Yes 🗸	N	lo 🗌	Not Present						
2 How was the	e sample deli	vered?			Courier									
					0000101									
Log In								_						
Was an atte	mpt made to	cool the san	nples?		Yes 🖌	N	o 🗌	NA						
	nnlas rassiva	d at a tampa	voture of 20° C			N	• □	NA 🗖						
4. vvere all san	nples receive	at a tempe	erature of >0°C	to 6.0°C	Yes ⊻		0	NA 🗀						
5. Sample(s) ir	n proper conta	ainer(s)?			Yes 🗹	N	• 🗌							
							_							
Sufficient sa	mple volume	for indicated	test(s)?		Yes 🗹	N	• 🗌							
7. Are samples	(except VOA	and ONG)	properly preserve	ed?	Yes 🗹	N	ь Ц	_						
8. Was preserv	ative added t	o bottles?			Yes 🗌	N		NA 🗌						
9. VOA vials ha	ave zero head	space?			Yes 🗌	N		No VOA Vials 🗸						
0. Were any sa	ample contain	ers received	broken?		Yes	N	• 🗸	[
	56							# of preserved						
1. Does paperv	vork match bo	ottle labels?			Yes 🔽	N	o 🗌	for pH:						
(Note discre	pancies on ch	ain of custo	dy)				_	(520)	>12 unless noted)					
2. Are matrices	correctly ide	ntified on Ch	nain of Custody?		Yes 🗹	N		Adjusted?						
3. Is it clear wh	at analyses w	ere request	ed?		Yes 🗹	N	• 🗆		DAD 4/9/19					
4. Were all hold (If no. notify	ding times abl	e to be met' authorization	? n.)		Yes 🗹	N	o [_]	Checked by:						
			,											
pecial Hand	iling (if ap	<u>plicable)</u>						_						
15. Was client r	notified of all o	liscrepancie	s with this order	?	Yes 🗌	N	o 🗌	NA 🔽						
Perso	n Notified:	Γ		Date:		fur i Anderson verste den skrivet so	IN X HE CHINES							
By Wł	nom:	ľ		Via:	eMail] Phone [Fax	In Person						
Regar	ding:	ſ												
Client	Instructions:	ļ												
16. Additional r	emarks:													
17. <u>Cooler Info</u>	ormation													
Cooler N	lo Temp °C	Conditio	n Seal Intact	Seal No	Seal Date	Signe	d By							
1	5.4	Good	Yes											
2	2.2	Good	Yes					-						

	NTAL	ALOKI						1)	or V	» Y)	səlddu8 ir										
	NME		M 87109	-4107	t 101				(A	ΟΛ	-imə2) 0728										
	<u>ې</u> د		N N	345	ues!		24			()	40V) 80828					144					
	50		leron	202	Red		S'BCC	2808	3/\$	səp	8081 Pestic			- 8				<u> </u>			
	Z J		Ipnai	Fax	lysis	(†(,	OS'⁺O	1 ⁰³ 'E	1 ^{, 5} C	DN'I	D, F) snoinA	2									
	"		A -	: 	Ana		(0)41	10.01	70	slet	RCRA 8 Me				8						100000 14000
	AA		NE NE	397	100		(SM	15 02	.40			-		1							
	Ī		vkins	345	2			()	.01	+ D						198					
		-	Hav	505		(0)		и И Л	01	49)		\sim	V	×	X	X			 		
			4901	Tel T		(Â)) HY ((1 +			$\overline{\mathbf{v}}$	~	<u> </u>	$\overline{\Lambda}$		N		 		
						(1208)	S.BM		BE		X	X	X	X	X	X		 ema		
	463		155					24	5				~	1		1	N		Ľ.		
Turn-Around Time:	A Standard Rush	Project Name: MUNERIC	(duwgie unics Bir)	Project #:	MAV-19-001	Project Manager:	Allew, Rol	Sampler: Son Leve	On Ice: X Yes DNo	Sample Temperature: 5.4°c, 2.3°c	Container Preservative HEAL No. Type and # Type 190400	1 July -001		1 - CO3-	-004	<u> <u>5</u>00- / /</u>	9 <u>2</u> 0- 1		Received by: Date Time	N/2 684.01 4/8/19 072	Received by: U I Date lime
Chain-of-Custody Record	it Silot + Billronineul	Solutions	ng Address: 723 G. Clinton	GAZAS WW SACAS	1e#: 515-392-0510	l or Fax#:	C Package: andard □ evel 4 (Full Validation)	editation	ELAP 🗆 Other	DD (Type)	e Time Matrix Sample Request ID	5830 5 58-1 Vini	845 5 SP. (Eastwith	0920 5 5.2 Westwim	0945 5 5.P. 2 GREEIM	1015 5 SP-5 WERTUMM	1030 5 5P.S Communi		, Time: Relinduished by	10000 Jh Jump	190 Relinquished by:
	Client		Mailin		Phone	email	QA/QC	Accre			Date	して	-	-	-		-		Date:	82/20	18/19

Appendix D Photograph Documentation

Site Photographs Humble Yates Battery Sec. 16, TS 18S, R 28E



Fluid inside Berm



Spill Pool area locale of test trench



Removal of saturated pasture soil 1-10-19





Line Strike in Test Trench



Test Trench Excavation Line Repair



Lines East of Excavation & on pad



Sample Position 5 Refusal



Sample Position 4 Refusal



Sample Position 2



Sample Position 3 Refusal



Sample Position 1



Removal of |Stockpile



Restored Pad Area



Pad area looking south to SP1



Restored Pasture area looking South



Sample Point 5 looking North



Remediated area south of berm-buried line